

**Annual Pedagogical Plan 2020-2021**

**Class I**

**Subject: English**

<b>Class : I</b>		<b>Subject : English</b>	<b>Teacher : Deepa Suku</b>	
<b>MONTH</b>	<b>TOPICS</b>	<b>LEARNING OBJECTIVES</b>	<b>PEDAGOGICAL PRACTICES</b>	<b>LEARNING OUTCOMES</b>
<b>JUNE</b>	<b>My home and my family</b> * dictionary skills * sounds (vowels, consonants)	Students will be able to: * know and identify the members of a family * meanings and spellings of new words * appreciate the importance of family * write and talk about self	* paste the picture of their family * circle the family members * identify the new words in the grid * arranging the words in alphabetical order.	Students able to handle the : * importance of family * new words and spelings * affection between family members
<b>JULY</b>	* <b>A ride to school</b> * articles * phonetics * completing sentences	* meanings and spellings of new words * understand and use articles * write about school and class * list the people who help one in daily life	* make faces for the different feelings. * story telling * showing flash cards to identify words * rhyme	* punctuality and dicipline * resposibility of a family member * communication skills.
<b>AUGUST</b>	* <b>The cap seller and the monkey</b> * naming words	* read and understand the written text * understand naming words * complete a picture story	* picture composition * identity wild animals and pet animals from the given picture * name the pictures * showing classedge * story telling	* thinking at right time * kindness towards animals * communication skills
<b>SEPTEMBER</b>	* <b>Save water</b> * different occupations * is, am or are * this, that, these, those	* love towards nature * pronounce the short /o/ sound * importance of water * think creatively and critically	* paste the pictures of different sources of water * role play * visit a water body	* respect and protect nature. * importance of saving water * simple present tense
<b>OCTOBER</b>	<b>HALF YEARLY EXAMINATION</b>			

<b>NOVEMBER</b>	<ul style="list-style-type: none"> <li>* <b>The ugly duckling</b></li> <li>* young ones</li> <li>* adjectives</li> <li>* <b>Appu finds new friends</b></li> <li>* animal sounds</li> <li>* verb</li> <li>* singular, plural</li> </ul>	<ul style="list-style-type: none"> <li>* read and understand the story</li> <li>* understand play</li> <li>* understand big and little</li> <li>* understand describing words with naming words</li> <li>* write a picture composition</li> <li>* read and understand the story</li> <li>* animals and their sounds</li> <li>* understand action words</li> <li>* write a thank you note</li> </ul>	<ul style="list-style-type: none"> <li>* make a family tree</li> <li>* role play</li> <li>* describe about school</li> <li>* find out young one,s name</li> <li>* interaction</li> <li>* writing a thank you note</li> <li>* imitation of animal sounds</li> <li>* identify animal sounds ( listening)</li> <li>* ask the students doing actions</li> <li>* talk about their friends</li> </ul>	<ul style="list-style-type: none"> <li>* respect every one.</li> <li>* kindness towards animals</li> <li>* describe a noun</li> <li>* write sentences</li> <li>* friendship</li> <li>* identification of animal sounds</li> <li>* usage of action words</li> <li>* one and many</li> <li>* confidence to address a gathering</li> </ul>
<b>DECEMBER</b>	<ul style="list-style-type: none"> <li>* <b>At the zoo</b></li> <li>* homes of animals</li> <li>* has and have</li> </ul>	<ul style="list-style-type: none"> <li>* read and understand the text</li> <li>* understand animal homes</li> <li>* understand has / have</li> <li>* share incidents</li> <li>* work in groups</li> </ul>	<ul style="list-style-type: none"> <li>* paste the pictures of animals and their homes.</li> <li>* talk about their own things</li> <li>* giving a situation for role play</li> <li>* giving classedged activities</li> </ul>	<ul style="list-style-type: none"> <li>* love and care towards animals</li> <li>* importance of freedom</li> <li>* useage of has / have</li> <li>* reading skills</li> </ul>
<b>JANUARY</b>	<ul style="list-style-type: none"> <li>* <b>Tina learns to share</b></li> <li>* opposities</li> <li>* prepositions</li> </ul>	<ul style="list-style-type: none"> <li>* read and understand a picture story</li> <li>* use of prepositions</li> <li>* identify silent b in given words</li> <li>* listen for details</li> </ul>	<ul style="list-style-type: none"> <li>* describing pictures</li> <li>* role - play a given scene</li> <li>* doing games</li> <li>* talk about position of things</li> <li>* reading test</li> </ul>	<ul style="list-style-type: none"> <li>* love and care towards nature</li> <li>* positions</li> <li>* sharing</li> <li>* communication skills</li> </ul>
<b>FEBUARY</b>	<ul style="list-style-type: none"> <li>* <b>The three wishes</b></li> <li>* conjunctions</li> <li>* synonyms</li> </ul>	<ul style="list-style-type: none"> <li>* read and understand the text</li> <li>* play in groups</li> <li>* talk about a topic</li> <li>* use joining words to join two sentences</li> <li>* identify true sentences</li> </ul>	<ul style="list-style-type: none"> <li>* describing a picture</li> <li>* group activity role play</li> <li>* individual talk share their wishes</li> <li>* match the words with their meanings</li> <li>* join the sentences and and but</li> </ul>	<ul style="list-style-type: none"> <li>* role of patience and Intelligence in life</li> <li>* useage of conjunctions</li> <li>* identify words</li> </ul>
	<ul style="list-style-type: none"> <li>* <b>Healthy food</b></li> <li>* sentences</li> <li>* word grid</li> </ul>	<ul style="list-style-type: none"> <li>* use of homophones and other related words</li> <li>* making of sentences</li> <li>* healthy food</li> <li>* read and understand text</li> </ul>	<ul style="list-style-type: none"> <li>* write two or three sentences about your favourite fruit</li> <li>* making of fruit salad</li> <li>* find the name of the fruits in the grid</li> <li>* conducting quiz</li> </ul>	<ul style="list-style-type: none"> <li>* good manners.</li> <li>* aware of health</li> <li>* useage of sentences</li> <li>* reading skills</li> <li>* developing presentation skill</li> </ul>
<b>MARCH</b>	<b>ANNUAL EXAMINATION</b>			

**Subject: EVS**



<b>Class : I</b>		<b>Subject : EVS</b>	<b>Teacher : Deepa Suku</b>	
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MONTH	TOPICS	LEARNING OBJECTIVES	PEDAGOGICAL PRACTICES	LEARNING OUTCOMES
JUNE	<ul style="list-style-type: none"> <li>* about me</li> <li>* my body</li> <li>* my family</li> </ul>	<ul style="list-style-type: none"> <li>* Students will be able to :               <ul style="list-style-type: none"> <li>* talk about themselves</li> </ul> </li> <li>* understand external body parts               <ul style="list-style-type: none"> <li>* sense organs</li> <li>* working of body parts</li> </ul> </li> <li>* understand about family members               <ul style="list-style-type: none"> <li>* understand types of families</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>* paste their photograph when they were born and present</li> <li>* paste pictures of sense organs.</li> <li>* showing body parts</li> <li>* asking names of body parts</li> <li>* label the body parts.</li> <li>* rhyme (two little eyes)</li> <li>* make a family tree</li> <li>* talk about family members</li> <li>* identify families from the given picture</li> </ul>	<ul style="list-style-type: none"> <li>* Students able to handle the :               <ul style="list-style-type: none"> <li>* self respect</li> </ul> </li> <li>* unity               <ul style="list-style-type: none"> <li>* use of sense organs</li> <li>* working of body parts</li> </ul> </li> <li>* loving and caring of family members               <ul style="list-style-type: none"> <li>* togetherness</li> <li>* concept of family bonding</li> </ul> </li> </ul>
JULY	<ul style="list-style-type: none"> <li>* our food</li> <li>* houses</li> <li>* clothes</li> </ul>	<ul style="list-style-type: none"> <li>* understand about food               <ul style="list-style-type: none"> <li>* different meals in a day</li> <li>* sources of food</li> <li>* good food habits</li> <li>* importance of water</li> </ul> </li> <li>* different types of houses               <ul style="list-style-type: none"> <li>* different rooms in a house</li> <li>* different building materials</li> <li>* need of house</li> </ul> </li> <li>* types of clothes               <ul style="list-style-type: none"> <li>* different seasons</li> <li>* clothes in different seasons</li> <li>* making of clothes</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>* paste the pictures of food from plants and animals</li> <li>* Group activity make sandwich</li> <li>* identifying different tastes</li> <li>* identify fruits and vegetables</li> <li>* origami (house making )</li> <li>* draw your home</li> <li>* visit a flat</li> <li>* find out a kutcha house in their village</li> <li>* collect pictures of people in different uniforms.</li> <li>* collect different cloth materials</li> <li>* group discussion</li> <li>* use classedged</li> </ul>	<ul style="list-style-type: none"> <li>* save food               <ul style="list-style-type: none"> <li>* importance of drinking water</li> <li>* good manners.</li> <li>* importance of healthy food</li> <li>* sources of food</li> </ul> </li> <li>* cleanliness               <ul style="list-style-type: none"> <li>* types of houses</li> <li>* need to live in a house</li> </ul> </li> <li>* donating clothes               <ul style="list-style-type: none"> <li>* caring of clothes</li> <li>* different clothes worn during different seasons</li> </ul> </li> </ul>

AUGUST	<ul style="list-style-type: none"><li>* my school</li><li>* my neighbourhood</li><li>* good food habits</li></ul>	<ul style="list-style-type: none"><li>* love towards school</li><li>* different rooms in a school</li><li>* caring of things in school</li><li>* places in our neighbourhood</li><li>* useful services from neighbourhood</li><li>* cleanliness</li><li>* good and healthy habits</li><li>* importance of exercise</li></ul>	<ul style="list-style-type: none"><li>* make list of five things you find in a classroom and in a playground</li><li>* picture collection of different places</li><li>* visit neighbourhood places</li><li>* find the people who help us</li><li>*</li><li>* write five sentences about good habits.</li><li>* talk about daily routine</li></ul>	<ul style="list-style-type: none"><li>* love and respect teachers</li><li>* different rooms in a school</li><li>* caring of public property</li><li>* waste management.</li><li>* togetherness</li><li>* good habits.</li><li>* healthy habits.</li><li>* maintain healthy mind and body</li></ul>
SEPTEMBER	<ul style="list-style-type: none"><li>* air</li><li>* water</li></ul>	<ul style="list-style-type: none"><li>* types of air</li><li>* properties of air</li><li>* dirty air</li><li>* uses of water</li><li>* sources of water</li><li>* save water</li></ul>	<ul style="list-style-type: none"><li>* find from nature how fishes and trees breathe</li><li>* showing video about wind and storm</li><li>* collect pictures of water animals and plants</li><li>* visit a water body</li><li>* identify dirty water and clean water</li></ul>	<ul style="list-style-type: none"><li>* love towards nature.</li><li>* various forms in which we feel air</li><li>* how does air get polluted</li><li>* save water for future.</li><li>* sources of water</li></ul>
OCTOBER	HALF YEARLY EXAMINATION			
NOVEMBER	<ul style="list-style-type: none"><li>* festivals</li></ul>	<ul style="list-style-type: none"><li>* national festivals</li><li>* religious festivals</li></ul>	<ul style="list-style-type: none"><li>* collect pictures of national and religious festivals</li><li>* showing videos</li><li>* group discussion</li></ul>	<ul style="list-style-type: none"><li>* kindness</li><li>* love towards nation.</li><li>* unity in diversity</li></ul>

DECEMBER	<ul style="list-style-type: none"> <li>* animal world</li> <li>* world of plants</li> </ul>	<ul style="list-style-type: none"> <li>* wild animals</li> <li>* domestic animals</li> <li>* pet animals</li> <li>* helpful animals</li> <li>* animal homes, birds and insects</li> <li>* types of plants</li> <li>* part of a plant</li> <li>* uses of plants</li> </ul>	<ul style="list-style-type: none"> <li>* collect pictures of animal driven carts.</li> <li>* visit a farm</li> <li>* find the insects and birds from the garden</li> <li>* nature walk</li> <li>* collect and paste the leaves of different plants</li> </ul>	<ul style="list-style-type: none"> <li>* kindness towards animals</li> <li>* animals also living things.</li> <li>* different kinds of animals</li> <li>*</li> <li>* know about various types of plants</li> <li>* consideration for future.</li> <li>* their parts and their uses</li> </ul>
JANUARY	<ul style="list-style-type: none"> <li>* in the sky</li> <li>* weather and season</li> </ul>	<ul style="list-style-type: none"> <li>* to know about sun</li> <li>* the moon and stars</li> <li>* the difference between weather and season</li> <li>* winter season, summer season and</li> <li>* rainy season</li> </ul>	<ul style="list-style-type: none"> <li>* draw the different shapes of moon.</li> <li>* observe the night sky and day sky</li> <li>* draw the night sky and day sky</li> <li>* find the names of seasonal fruits and vegetables</li> <li>* find different clothes in different</li> <li>* seasons</li> </ul>	<ul style="list-style-type: none"> <li>* developing observation skill</li> <li>* to understand the changes in day and night</li> <li>* protecting and take care of nature.</li> <li>* co-relate with nature</li> <li>* different climates in different seasons</li> </ul>
FEBRUARY	<ul style="list-style-type: none"> <li>* how we travel</li> <li>* let us be safe</li> </ul>	<ul style="list-style-type: none"> <li>* different means of transport</li> <li>* fuels</li> <li>* animals used for transportation</li> <li>* safety at home</li> <li>* at school</li> <li>* at the playground</li> <li>* on the road</li> </ul>	<ul style="list-style-type: none"> <li>* paste the pictures different means of transport</li> <li>* make a first aid box at home.</li> <li>* colour zebra crossing</li> <li>* draw traffic signals</li> </ul>	<ul style="list-style-type: none"> <li>* save for future.</li> <li>* energy conservation</li> <li>* sharing</li> <li>* good relationship.</li> <li>* different means of transport</li> <li>* obey traffic rules.</li> <li>* enable the learner to stay safe and be equipped to stay safe</li> </ul>
MARCH	ANNUAL EXAMINATION			

**Subject: Maths**

	Topic	Learning objective	Pedagogical Practices	Learning Outcomes	Assessment strategy
June	1. Looking back	Students will be able to understand, <ul style="list-style-type: none"> <li>Numbers from 1 to 10</li> <li>Number line</li> <li>Counting back</li> <li>Before between after</li> <li>Comparing numbers</li> <li>Increasing decreasing order</li> <li>Knowing ordinals</li> <li>Addition and subtraction</li> </ul>	Class edge activity	Students will be able to realise, <ul style="list-style-type: none"> <li>Numbers from 1 to 10</li> <li>Number line</li> <li>Counting back</li> <li>Before between after</li> <li>Comparing numbers</li> <li>Increasing decreasing order</li> <li>Ordinals</li> <li>Addition and subtraction</li> </ul>	Oral question, Work sheet
		WORK SHEET: 1			
July	2.Numbers from 11 to 20	Students will be able to understand, <ul style="list-style-type: none"> <li>Places in numerals</li> <li>The abacus</li> <li>Comparing numbers from 1 to 20</li> </ul>	Assignment	Students will be able to realise, <ul style="list-style-type: none"> <li>Places in numerals</li> <li>The abacus</li> <li>Comparing numbers from 1 to 20</li> </ul>	Pen and paper test, Oral questions
	3. Addition and subtraction (with in 20)	Students will be able to understand, <ul style="list-style-type: none"> <li>Addition by counting</li> <li>Addition using the number line</li> <li>Addition table</li> </ul>	Interactive lecture	Students will be able to realise, <ul style="list-style-type: none"> <li>Addition by counting</li> <li>Addition using number line</li> <li>Addition table</li> </ul>	Oral questions, Work sheet
		WORK SHEET :2			

August	3. Addition and subtraction (with in 20)	Students will be able to understand, <ul style="list-style-type: none"> <li>Addition of 3 or more numbers</li> <li>Subtraction</li> <li>Subtraction using number line</li> <li>Word problems</li> </ul>	Text book activity	Students will be able to realise, <ul style="list-style-type: none"> <li>Addition of 3 or more numbers</li> <li>Subtraction using number line</li> <li>Word problems</li> </ul>	Work sheet , pen and paper test
	11. Patterns	Students will be able to understand, <ul style="list-style-type: none"> <li>Patterns</li> </ul>	Class edge activity	Students will be able to realise, <ul style="list-style-type: none"> <li>patters</li> </ul>	Work sheet, class edge activity
	12. Data handling	Students will be able to, <ul style="list-style-type: none"> <li>Complete the table</li> </ul>	Assignment	students will be able to realise, <ul style="list-style-type: none"> <li>complete table by observation</li> </ul>	Class edge activity work sheet
		WORK SHEET :3			
Septemb er	4. number from 21 to 100	Students will be able to understand, <ul style="list-style-type: none"> <li>Number 20 to 30</li> <li>Counting by ten</li> <li>Tens ones</li> <li>Expanded forms</li> <li>Number and number names</li> <li>Comparing numbers</li> <li>Ascending and descending orders</li> </ul>	Class edge activity	Students will be able to realise, <ul style="list-style-type: none"> <li>Number 20 to 30</li> <li>Counting by ten</li> <li>Tens and ones</li> <li>Expanded forms</li> <li>Number and number names</li> <li>Comparing numbers</li> <li>Ascending and descending orders</li> </ul>	Work sheet, Oral questions, Pen and paper test
October		REVISION AND HALF YEARLY EXAMINATION			
Novembe r	5. More on addition and subtraction	Students will be able to understand, <ul style="list-style-type: none"> <li>Adding tens and ones</li> <li>Adding two digit number without carrying</li> <li>Subtracting ones from two digit numbers without borrowing</li> <li>Word problems</li> </ul>	Assignment , Class edge activity	Students will be able to realise , <ul style="list-style-type: none"> <li>Adding tens and ones</li> <li>Adding two digit number without carrying</li> <li>Subtracting ones from two digit numbers without borrowing</li> <li>Word problems</li> </ul>	Class edge activity, Pen and paper test

		WORK SHEET : 4			
December	6.Multiplication	Students will be able to understand, <ul style="list-style-type: none"> <li>• Multiplication as repeated addition</li> <li>• Multiplication tables of 1,2,5, and 10</li> </ul>	Interactive lecture, assignment	Students will be able to realise, <ul style="list-style-type: none"> <li>• Multiplication as repeated addition</li> <li>• Multiplication tables of 1,2,5, and 10</li> </ul>	Text book activity, Class edge activity
January	7.Money	Students will be able to understand, <ul style="list-style-type: none"> <li>• Coins and notes</li> <li>• Word problems</li> </ul>	Discussion, demonstration	Students will be able to realise, <ul style="list-style-type: none"> <li>• Coins and notes</li> <li>• Importance of money</li> </ul>	Oral questions, Text book activity
	8.Measurements	Students will be able to understand, <ul style="list-style-type: none"> <li>• Comparing lengths</li> <li>• Weight and capacity</li> </ul>	Class edge activity assignment	Students will be able to realise, <ul style="list-style-type: none"> <li>• Comparing lengths</li> <li>• Weight and capacity</li> </ul>	Oral questions Pen and paper test
		WORK SHEET :5			
February	9. Time	Students will be able to understand , <ul style="list-style-type: none"> <li>• Reading clock</li> <li>• Days of the week</li> <li>• Months of the year</li> </ul>	Class edge activity Interactive lecture	Students will be able to realise, <ul style="list-style-type: none"> <li>• Reading clock</li> <li>• Days of the week</li> <li>• Month of the year</li> </ul>	Oral questions Puzzles
	10.shapes	Students will be able to understand, <ul style="list-style-type: none"> <li>• Plane shapes</li> <li>• Curved shapes</li> <li>• Straight lines</li> <li>• Solid shapes</li> <li>• Sliding and rolling shapes</li> </ul>	Class edge activity demonstration	Students will be able to realise, <ul style="list-style-type: none"> <li>• Plane shapes</li> <li>• Curved shapes</li> <li>• Straight lines</li> <li>• Solid shapes</li> <li>• Sliding and rolling shapes</li> </ul>	Oral question Text book activity
		REVISION FOR ANNUAL EXAM ANNUAL EXAM			

**Subject: Malayalam**



Month	Topic	Short term outcome	Pedagogical practice	Longterm outcome
June	അക്ഷരങ്ങൾ (റ,ന,ത,പ,വ,ര,ല ട,മ)പഠിക്കുന്നു	വായന എഴുത്ത്	അക്ഷരങ്ങൾ ചിത്രങ്ങൾ പദങ്ങൾ	അക്ഷരങ്ങൾ അറിയുന്നു
July	സ്വരാക്ഷരങ്ങൾ (അ---ഇ)	വായന എഴുത്ത്	ചിത്രങ്ങൾ പദങ്ങൾ	സ്വരാക്ഷരങ്ങളും അവലോകനപദങ്ങളും പഠിക്കുന്നു
Aug	സ്വരാക്ഷരങ്ങൾ (എ---അ)	വായന എഴുത്ത്	ചിത്രങ്ങൾ പദങ്ങൾ ചാർട്ട്	സ്വരാക്ഷരങ്ങളും അവലോകനപദങ്ങളും പഠിക്കുന്നു
Sep	സ്വരചിഹ്നങ്ങൾ (അ---ഇ)	വായന എഴുത്ത്	ചിത്രങ്ങൾ പദങ്ങൾ	പദങ്ങൾ കണ്ടെത്തുന്നു
Oct	സ്വരചിഹ്നങ്ങൾ (എ---അം)	എഴുത്ത് വായന	ചിത്രങ്ങൾ പദങ്ങൾ	പദങ്ങൾ കണ്ടെത്തുന്നു
Nov	വ്യഞ്ജനാ- ക്ഷരങ്ങൾ (ക---ണ)	വായന എഴുത്ത്	ചിത്രങ്ങൾ പദങ്ങൾ	വ്യഞ്ജനാക്ഷരങ്ങളും പദങ്ങളും പഠിക്കുന്നു
Dec	വ്യഞ്ജനാ- ക്ഷരങ്ങൾ (ത---റ)	വായന എഴുത്ത്	ചിത്രങ്ങൾ പദങ്ങൾ ചാർട്ട്	വ്യഞ്ജനാക്ഷരങ്ങൾ പദങ്ങൾ പഠിക്കുന്നു
Jan	ചില്ലക്ഷരങ്ങൾ (നീ,രീ,ശീ,ഈ,തീ) കൂട്ടക്ഷരങ്ങൾ (കെ---ന്ന)	വായന എഴുത്ത് വായന എഴുത്ത്	ചിത്രങ്ങൾ പദങ്ങൾ ചിത്രങ്ങൾ പദങ്ങൾ	ചില്ലക്ഷരങ്ങളെ തിരിച്ചറിയുന്നു കൂട്ടക്ഷരങ്ങൾപദങ്ങൾ പഠിക്കുന്നു
Feb	കൂട്ടക്ഷരങ്ങൾ ( പ്ല---വ്യ)	വായന എഴുത്ത്	ചിത്രങ്ങൾ പദങ്ങൾ	കൂട്ടക്ഷരങ്ങൾപദങ്ങൾ പഠിക്കുന്നു
Mar	വായന പുനരാവർത്തനം			

**Subject: Hindi**

MONTH	TOPIC	SHORT TERM GOALS	PEDAGOGICAL PRACTICES	LONG TERM GOALS (LEARNING OUTCOMES) STUDENTS WILL BE ABLE TO;	ASSESSMENT STRATEGY
JUNE	svaraxar	svaraxaraoM ka AByaasa kmaa, svaraxar pZnao AaOr ilaKnao ko ilae Ca~aoM kao tOyaar kmaa, SaudQa ]ccaarNa isaKanaa.	ica~aoM kl sahayata sao Axar isaKanaa.	svaraoM ka &ana, ]ccaarNa evaM laoKna kl trlka kl jaanakarl imalanaa.	AxaraoM kao phcaananaa.
		<b>kaya-p~k : I</b>			
JULY	vyaMjanaaxar- k sao Na tk (punaravat-na)	vyaMjanaaxar- k sao Na tk AByaasa kmaa, vyaMjanaaxar pZnao AaOr ilaKnao ko ilae Ca~aoM kao tOyaar kmaa, SaudQa ]ccaarNa isaKanaa.	ica~aoM kl sahayata sao vyaMjanaaxar isaKanaa.	Alaga Alaga vyaMjanaaxaraoM kao phcaanao kl xamata	ica~ doKkr vyaMjanaaxar phcaananaa.
		<b>kaya-p~k: II</b>			
AUGUST	vyaMjanaaxar- t sao & tk	vyaMjanaaxar- t sao & tk AaOr ibanaa maa~a ko SabdaoM ka AByaasa	ica~aoM kl sahayata sao vyaMjanaaxar	Alaga Alaga vyaMjanaaxaraoM kao phcaanao kl	ica~ doKkr vyaMjanaaxar phcaananaa.

		kmaa.	isaKanaa.	xamata	
		<b>kaya-p~k: III</b>			
SEPTEMBER	ibanaa maa~a, Aa kl maa~a (punaravat-na)	Aa, [ kl maa~a ko Sabd pZnao, ilaKnao AaOr ]ccaarNa kmao kao isaKanaa.	AxaraoM kao jaaoDkr ilaKnao kl trlka samaJaanaa.	Axar imalaakr nae Sabd banaanao kl xamata p`aPt kmaa.	AxaraoM kao jaaoDkr Sabd banaanaa.
		<b>punaravat-na evaM AQa- vaaiYa-k prlxaa</b>			
OCTOBER	[ , [- kl maa~a (punaravat-na)	[ , ] kl maa~a ko Sabd pZnao, ilaKnao AaOr ]ccaarNa kmao kao isaKanaa.	AxaraoM pr maa~a lagaakr ilaKnao kao isaKanaa.	Axar imalaakr nae Sabd banaanao kl xamata p`aPt kmaa.	svaraxar kao ]nakl maa~a sao imalaana kmaa.
NOVEMBER	] , } , ? kl maa~a (punaravat-na)	] , ? kl maa~a ko Sabd pZnao, ilaKnao AaOr ]ccaarNa kmao kao isaKanaa.	AxaraoM pr maa~a lagaakr ilaKnao kao isaKanaa.	Axar imalaakr nae Sabd banaanao kl xamata p`aPt kmaa.	Sabd pUra kmao kao donaa.
		<b>kaya-p~k: IV</b>			
DECEMBER	e , eo kl maa~a (punaravat-na)	e , eo kl maa~a ko Sabd ]ccaarNa AaOr ilaKnao kl trlka isaKanaa.	AxaraoM pr maa~a lagaakr ilaKnao kao isaKanaa.	Axar imalaakr nae Sabd banaanao kl xamata p`aPt kmaa.	jaaoDI banaanao kao donaa.
JANUARY	Aao, AaO kl maa~a (punaravat-na)	Aao, AaoOo kl maa~a ko Sabd ]ccaarNa AaOr ilaKnao kl trlka isaKanaa.	AxaraoM pr maa~a lagaakr ilaKnao kao isaKanaa.	Axar imalaakr nae Sabd banaanao kl xamata p`aPt kmaa.	Sabd dokr ]namaoM maa~a lagaanao kao khnaa.

		<b>kaya-p~k:v</b>			
FEBRUARY	AM , A: kl maa~a (punaravat-na)	Anausvaar AaOr ivasaga- ko icah\na kao pZnao, ilaKnao AaOr ]ccaarNa kmao kao isaKanaa.	AxaraoM pr maa~a lagaakr ilaKnao kao isaKanaa.	Axar imalaakr nae Sabd banaanao kl xamata p`aPt kmaa.	Anausvaar evaM ivasaga- kl AMtr pUCnaa.
MARCH	punaravat-na	svaraxar, vyaMjanaaxar AaOr svaraoM kl maa~a ko SabdaoM ka punaravat-na AaOr <b>vaaiYa-k prlxaa</b>	maUlyaaMkna		

**Annual Pedagogical Plan 2020-2021**

**Class II**

**Subject: Maths**

Month	Topic	Learning Objectives	Pedagogical strategies	Learning outcomes	Assessment Strategy
June	1. Looking back	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Read and write numbers upto 100</li> <li>• Understand the numberline</li> <li>• Identify Patterns</li> <li>• Understand the placevalue</li> <li>• Compare and order numbers</li> <li>• Aware about Addition and Subtraction.</li> <li>• Understand Geometrical Shapes and Fun with numbers.</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Discussion</li> </ul>	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• read and write numbers.</li> <li>• Write digits as per number line</li> <li>• Write digits as per place value</li> <li>• Compare and write numbers</li> <li>• Add and subtract different numbers with carrying and with borrowing</li> <li>• Write about geometrical shapes and fun with numbers.</li> </ul>	<ul style="list-style-type: none"> <li>• Pen and paper test</li> <li>• Work sheet</li> </ul>
	8. Even and Odd numbers	<ul style="list-style-type: none"> <li>• Understand about pairs.</li> </ul>	<ul style="list-style-type: none"> <li>• project</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• Even and odd numbers</li> <li>• Pairs</li> </ul>	

July	2. numbers upto 1000	<p>Students will able to</p> <ul style="list-style-type: none"> <li>• Understand building numbers upto 1000</li> <li>• Number names</li> <li>• Place value and face value</li> <li>• Expanded form</li> <li>• 3 digit number on abacus</li> <li>• Comparing and ordering numbers.</li> </ul>	<ul style="list-style-type: none"> <li>• Realia</li> <li>• Smart class</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• Read and write numbers upto 1000</li> <li>• Place value and face value</li> <li>• Expanded form</li> <li>• Ascending and descending order</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Pen and paper test</li> </ul>
August	<p>3. Addition</p> <p>4. Subtraction</p>	<p>Students will able to</p> <ul style="list-style-type: none"> <li>• Understand Adding 2 and 3 digits numbers without and with carrying</li> <li>• Understand subtracting 3 digit numbers with and without borrowing</li> <li>• Addition and subtraction together</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Pose questions</li> <li>• Smartclass</li> <li>• Interactive lecture</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• Add 3 digit numbers</li> <li>• Solve word problems</li> </ul> <p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• Subtract 3 digit numbers</li> <li>• Solve word problems</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Pen and paper test</li> <li>• Pen and paper test</li> <li>• Class edge activity</li> </ul>
September	5. Multiplication	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Understand multiplication on number line</li> <li>• Properties of multiplication</li> <li>• Multiplication tables from 1 to 10</li> </ul>	<ul style="list-style-type: none"> <li>• Pose questions</li> <li>• Discussions</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• Multiplication and its properties</li> <li>• More multiplication</li> <li>• About multiplication tables</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Pen and paper test</li> </ul>





January	11.Time and Calander	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Understand telling time of half an hour</li> <li>• Explore the minutes and hours</li> <li>• Days of week</li> <li>• Months of year</li> <li>• Calendar and seasons</li> </ul>	<ul style="list-style-type: none"> <li>• Pose questions</li> <li>• Realia</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• Time reading</li> <li>• Days of a week</li> <li>• Months of year</li> <li>• Calendar and seasons</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Pen and paper test</li> </ul>
	12. Geometry	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Understand plane shapes</li> <li>• Straight and curved lines</li> <li>• Solid shapes</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Discussion</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• plane and solid shapes</li> <li>• Drawing straight line using ruler</li> <li>• About curved lines</li> </ul>	<ul style="list-style-type: none"> <li>• Pen and paper test</li> <li>• Class edge activity</li> </ul>
February	14.Patterns	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Understand patterns around us</li> <li>• Patterns using match sticks</li> </ul>	<ul style="list-style-type: none"> <li>• Interactive lecture</li> <li>• Discussion</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• The types of patterns</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Quiz</li> </ul>
	15.Data Handling	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Analyse data</li> </ul>	<ul style="list-style-type: none"> <li>• Pose questions</li> <li>• Discussion</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• data handling</li> </ul>	<ul style="list-style-type: none"> <li>• Pen and paper test</li> <li>• Oral questions</li> </ul>
March	13.Fractions	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Understand about fraction as a part of whole</li> </ul>	<ul style="list-style-type: none"> <li>• Project</li> <li>• Pose questions</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• fractions</li> </ul>	<ul style="list-style-type: none"> <li>• Worksheet</li> <li>• Class edge activity</li> </ul>

Revision and Exam

**Subject: Malayalam**

June 1 സ്വരാക്ഷരങ്ങളും ചിഹ്നങ്ങളും	പുനസ്ഥാന ചിഹ്നങ്ങളും പദങ്ങളും ഓർമ്മിക്കുന്നു	അക്ഷരത്തെറ്റ് ഇല്ലാതാകുന്നു	
July വ്യഞ്ജനാക്ഷരങ്ങളും ചില്ലക്ഷരങ്ങളും കൂട്ടക്ഷരങ്ങളും	പുതിയ പദങ്ങൾ കണ്ടെത്തുന്നു	വായന, എഴുത്ത്	വായനാശീലം വളർത്തുന്നു
Aug 1 അന്ത്യം കുഞ്ഞും 2 ഷൈനയും ചങ്ങാതിമാരും	പാഠായണം കവിപരിചയം വായന, ചിഹ്നങ്ങൾ അറിയുന്നു	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ പ്രവർത്തനങ്ങൾ	നിരീക്ഷണപാടവം വളർത്തുന്നു ചിഹ്നങ്ങൾ ഉറപ്പിക്കുന്നു
Sep 3 വെള്ളം	പുതിയ പദങ്ങൾ പഠിക്കുന്നു	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	വെള്ളം അമൃലുമാണ്
Oct 4 ഒരു ചെറുപ്പ കുഞ്ഞിയുടെ കഥ	കഥാസ്വരണം, വായന	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	അധ്വാനത്തിന്റെ മഹത്വം അറിയുന്നു
Nov 5 യാൻസിറാണി	വായന, മഹാത്മാനെ അറിയുന്നു	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	ഭാഷാപരമായ ശേഷി വളർത്തുന്നു
Dec 6 ചിരപ്പാട്ട്	ഈണം കണ്ടെത്തുന്നു	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ,	കൃഷിയെ അറിയുന്നു
Jan 7 സംസാരിക്കുന്ന പ്രാവ്	വായന, ആസ്വാദനം	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	സ്വാതന്ത്ര്യത്തിന്റെ മഹത്വം അറിയുന്നു
8 ഭോഷണത്തിന് ലഭിച്ച ശിക്ഷ	വായന, മഹാത്മാരുടെ കഥകളെ അറിയുന്നതിന്	ആശയം ഗ്രഹിക്കുന്നു പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	കുറ്റം പറയുന്നത് നല്ലതല്ലെന്ന് അറിയുന്നു
Feb 9 തുപ്പുന്ന പാവ	ഐതീഹ്യ കഥകൾ ആസ്വാദനം	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	കഴിവുകളെ വളർത്തുന്നു
Mar 10 ലോകാവസാനം	കഥാസ്വരണം	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	അസൂയ നന്നല്ലെന്ന് കുട്ടി അറിയുന്നു

**Subject: English**

MONTH	TOPICS	LEARNING OBJECTIVE	PEDAGOGICAL PRACTICES	LEARNING OUTCOMES
JUNE	<p>1. Too much sun. (prose)</p> <p>*Summer. (poem)</p>	<p>*Understand the value of friendship</p> <p>*To know them to about vowels</p> <p>*To enable them to understand the use of nouns</p>	<p>*Group discussion</p> <p>*Writing a paragraph</p>	<p>*Understood the value of friendship</p> <p>*Known about vowels</p> <p>*Understood the use of nouns</p>
JULY	<p>2. Naughty Karan. (prose)</p> <p>*All the bells were ringing. (poem)</p>	<p>* Inculcate the value of sharing.</p> <p>*To make them to understand the concept of singular and plural</p>	<p>*Word web</p> <p>*Story writing</p>	<p>* Inculcate the value of sharing.</p> <p>*Understood the concept of singular and plural</p>

AUGUST	3. Nipun learns a lesson. (prose)	*To develop a good food habits.  *To enable them to understand the pronouns	*Group discussion  *Role play	* Developed a good food habits.  * Understood d the pronouns
SEPTEMBER	4. Abu Ali counts his donkeys. (prose)  *Bee! I' m expecting you. (poem)	*Students will be able to accept their mistakes.  *To make them to understand the use of adjective	*Paragraph writing  *Web chart	*Could be able to accept their mistakes.  *Understood the use of adjective
OCTOBER	5. Knock, knock who's there?(prose)	*Students will be able to obey their elders  *To enable them to understand the use of action words end with – “ing”	*Prepare invitation card  *Role play	*Could be able to obey their elders  *Understood the use of action words end with – “ing”
NOVEMBER	6. Honeybees (prose)	*To inculcate the value of unity.  *To make them to understand the use of adverbs	*Picture composition.  *Story writing.	* Inculcate the value of unity.  *Understood the use of adverbs.

DECEMBER	<p>7. The baboon's umbrella(prose)</p> <p>*Princess sleepy head (poem)</p>	<p>*Students will be able to select right things at right time</p> <p>*To enable them to understand the use of has/have</p> <p>*Make them to understand the use of possessive nouns</p>	<p>*Project</p> <p>*Role play</p>	<p>*Able to select right things at right time.</p> <p>* understood the use of has/have.</p> <p>* understood the use of possessive nouns.</p>
JANUARY	<p>8. Who stole Nicky's peanuts? (prose)</p> <p>*I'm late for school. (poem)</p>	<p>*Inculcate the value of truthfulness.</p> <p>*To make them to understand the use of past tense</p>	<p>*Paragraph writing</p> <p>*group discussion</p>	<p>*Inculcate the value of truthfulness.</p> <p>* understood the use of past tense</p>
FEBRUARY	<p>9. Gandhiji passes his own examination.(prose)</p>	<p>*Inculcate the value of honesty.</p> <p>*To enable them to understand the use of preposition</p>	<p>*Letter writing</p> <p>*Group discussion</p>	<p>*Inculcate the value of honesty.</p> <p>* Understood the use of preposition</p>
MARCH	<p>10. The shoemaker and the elves. (prose)</p>	<p>* To understand the value of compassion.* To enable them to understand the concept of conjunction</p>	<p>*Story telling</p> <p>*Role play</p>	<p>*Understood the value of compassion.</p> <p>* Understood the concept of conjunction</p>

**Subject: Hindi**



MONTH	TOPIC	SHORT TERM GOALS	PEDAGOGICAL PRACTICES	LONG TERM GOALS (LEARNING OUTCOMES) STUDENTS WILL BE ABLE TO;	ASSESSMENT STRATEGY
JUNE	svaraxar,vyaMjanaax ar AaOr ibanaa maa~a	svaraxar AaOr vyaMjanaaxaraoM ka AByaasa kmaa.dao AxaraoM vaalao ibanaa maa~a ko Sabd.	JccaarNa pr jaaor dokr vaacana kmaa.	AxaraoM kl phcaana kmao maom saxama haonaa.	Axar phcaananaa.
		kaya-p~k: I			
JULY	ibanaa maa~a	tlna evaM caar AxaraoM vaalao ibanaa maa~a ko Sabd .	ica~aoM kl sahayata sao Ca~aoM kao Sabd &ana donaa.	vaNaa-o kao imalaakr nae Sabd banaanaa.	ica~aoM ko naama ilaKnaa.
		kaya-p~k: II			
AUGUST	Aa , [ kl maa~a	Aa,[ kl maa~avaalao Sabd isaKanaa ,jnako Aqa- baaoQa kmaa.	pustk AaOr SyaamapT kl sahayata sao pZanaa evaM ilaKanaa.	vaNaa-o kao imalaakr nae Sabd banaanaa.	maa~a lagaakr Sabd ilaKnaa.
		kaya-p~k: III			

SEPT4MBER	[-,] kl maa~a	[-,] kl maa~avaalao Sabd isaKanaa. ]nako Aqa- baaoQa kmaa ,punaravat-na.	pustk AaOr SyaamapT kl sahayata sao pZanaa evaM ilaKanaa.	vaNaa-o kao imalaakr nae Sabd banaanaa.	Axar jaaoDkr Sabd banaanaa.
		AQa- vaaiYa-k prlxaa			
OCTOBER	} , ? kl maa~a	? kl maa~a ko Sabd ka Aqa- baaoQa kmaa.ibanaa maa~a sao ? kl maa~a tk punaravat-na	pustk AaOr SyaamapT kl sahayata sao Pa`Snaao%tr evaM pUra kmao kao isaKanaa.	vaNaa-o kao imalaakr nae Sabd banaanaa.	imalaana kmaa.
NOVEMBER	e , eo ,Aao kl maa~a	e , eo ,Aao kl maa~a ko Sabd ka Aqa- baaoQa kmaa.	pustk AaOr SyaamapT kl sahayata sao pZanaa evaM ilaKanaa.	vaNaa-o kao imalaakr nae Sabd banaanaa.	ica~ doKkr ]%tr ilaKnaa.
		kaya-p~k : IV			
DECEMBER	AaO,AM kl maa~a	AaO kl maa~avaalao Sabd isaKanaa evaM ]nako Aqa- baaoQa kmaa.Anausvaar isaKanaa.	pustk AaOr SyaamapT kl sahayata sao pZanaa evaM ilaKanaa.	vaNaa-o kao imalaakr nae Sabd banaanaa.	SabdaoM maom Anausvaar lagaanaa.
JANUARY	ivasaga- evaM caMd`ibandu	ivasaga- evaM caMd`ibandu ko ]ccaarNa AaOr laoKna kl trlka isaKanaa.	pustk AaOr SyaamapT kl sahayata sao pZanaa evaM ilaKanaa.	vaNaa-o kao imalaakr nae Sabd banaanaa.	maa~ae^ phcaanakr ilaKnaa.
		kaya-p~k : V			

FEBRUARY	cauihyaa AaOr nallaU , gaulagaula ka caa^d ,iganatl.	Aqa- , ivalaaoma Sabd AaOr p`Snaao%tr isaKanaa.	hava Baava sao paz pZanaa.p`Snaao%tr evaM vyaakaraNa isaKanaa.	dUsaraom kl sahayata kmaa .baDaoM kl baat maananaa.	vaacana kmaa,.
MARCH	punaravat-na	pizt pazaoM ka punaravat-na evaM vaaiYa-k prlxaa.			

**Annual Pedagogical Plan 2020-2021**

**Class III**

**Subject: EVS**

MONTH	CHAPTER	SHORT –TERM LEARNING OUTCOMES	PEDAGOGICAL STRATEGIES	LONG-TERM LEARNING OUTCOMES	ASSESSMENT STRATEGY
JUNE	➤ Learning in a family	<ul style="list-style-type: none"> <li>➤ student learn to identify the different members of his/her family</li> <li>➤ learn to share things with family</li> <li>➤ have an caring attitude towards the family members</li> </ul>	<ul style="list-style-type: none"> <li>➤ Discussion</li> <li>➤ Audio-visual aids</li> </ul>	<ul style="list-style-type: none"> <li>➤ The child will be well mannered</li> <li>➤ They will be having helping mentality</li> <li>➤ Will have love and empathy towards all</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral questions</li> <li>➤ Pen - paper test</li> </ul>
	➤ House we live in	<ul style="list-style-type: none"> <li>➤ pupil gets an idea about the house they live in</li> <li>➤ they get to know the different types of houses</li> <li>➤ get to know that house should be clean</li> </ul>	<ul style="list-style-type: none"> <li>➤ Audio-visual aids</li> <li>➤ dicussion</li> </ul>	<ul style="list-style-type: none"> <li>➤ Get to know about the different architectural materials needed while making a house</li> <li>➤ Cleaning house is necessary for maintaining health and hygiene</li> </ul>	<ul style="list-style-type: none"> <li>➤ Quiz</li> <li>➤ Oral test</li> <li>➤ Pen-paper test</li> </ul>

JULY	<ul style="list-style-type: none"> <li>➤ Food we eat</li> <li>➤ Cooking food</li> </ul>	<ul style="list-style-type: none"> <li>➤ Child identifies the plants and animals around them</li> <li>➤ Understands that we must eat good food</li> <li>➤ Students identify the different types of cooking</li> <li>➤ Classifies the different utensils used for cooking</li> <li>➤ Understands the importance of food</li> </ul> <p>REVISION AND PT 1 EXAM</p>	<ul style="list-style-type: none"> <li>➤ Group discussion</li> <li>➤ Hands on learning</li> <li>➤ Video clip</li> <li>➤ Interactive sessions</li> </ul>	<ul style="list-style-type: none"> <li>➤ Child follows a balanced diet</li> <li>➤ Minimise the use of junk food</li> <li>➤ Students make the use of safe cooking methods</li> <li>➤ Try to prepare new dishes</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral questions</li> <li>➤ Pen – paper test</li> <li>➤ Quiz</li> <li>➤ Puzzles</li> <li>➤ Quiz</li> <li>➤ Pen-paper test</li> </ul>
AUGUST	<ul style="list-style-type: none"> <li>➤ We need water</li> <li>➤ Keeping healthy and fit</li> </ul>	<ul style="list-style-type: none"> <li>➤ Student understands the uses of water</li> <li>➤ Classify the different sources of water</li> <li>➤ Identifies clean water</li> <li>➤ Understands that we exercise daily to be healthy</li> </ul>	<ul style="list-style-type: none"> <li>➤ Story telling</li> <li>➤ Video clip</li> <li>➤ Role play</li> </ul>	<ul style="list-style-type: none"> <li>➤ Students make the use of rain water harvesting</li> <li>➤ Save each drop of water</li> <li>➤ Purify drinking water</li> <li>➤ Uses different tips for storing and saving water</li> <li>➤ Maintains health and hygiene</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral questions</li> <li>➤ Summarising</li> <li>➤ Pen – paper test</li> <li>➤ Word games</li> <li>➤ Project</li> </ul>

	<ul style="list-style-type: none"> <li>➤ Plants around us</li> </ul>	<ul style="list-style-type: none"> <li>➤ Must have good food habits</li> <li>➤ Should wash our hands daily</li> <li>➤ Should keep our body clean</li> <li>➤ Should not eat uncovered food</li> <li>➤ Have good sleep</li> <li>➤ Recognise the different size of trees</li> <li>➤ Classify the shapes of leaves</li> <li>➤ Understand that some plants can be used as medicines</li> <li>➤ We can also use plants for cooking</li> </ul>	<ul style="list-style-type: none"> <li>➤ Group discussion</li> <li>➤ Video clip</li> <li>➤ Group discussion</li> <li>➤ Video clip</li> <li>➤ Hands on training</li> </ul>	<ul style="list-style-type: none"> <li>➤ Prepares home mad cooked food</li> <li>➤ Students can classify plants into herbs, shrubs and trees</li> <li>➤ They can cultivate medicinal plants as an occupation</li> <li>➤ Can engage in plant tissue culturing</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen-paper test</li> <li>➤ Quiz</li> <li>➤ Projects</li> <li>➤ Science exhibitions</li> <li>➤ Pen-paper test</li> </ul>
SEPTEMBER	<ul style="list-style-type: none"> <li>➤ Animals around us</li> <li>➤ Creepy crawlies</li> </ul>	<ul style="list-style-type: none"> <li>➤ Students can classify animals according to their size</li> <li>➤ They know that animals are friends</li> <li>➤ We should take care of animals</li> <li>➤ Understands that insects are social too</li> <li>➤ Some of the insects are harmful</li> <li>➤ Most insect are useful</li> </ul>	<ul style="list-style-type: none"> <li>➤ Group discussions</li> <li>➤ Video clip</li> <li>➤ Story telling</li> <li>➤ Science cards</li> <li>➤ Video clips</li> <li>➤ Story telling</li> </ul>	<ul style="list-style-type: none"> <li>➤ They show love and compassion towards animals</li> <li>➤ Can engage in animal tissue culturing</li> <li>➤ Take doctors support while getting injured with harmful insects</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen-paper test</li> <li>➤ Quiz</li> <li>➤ Puzzles</li> <li>➤ Pen-paper test</li> <li>➤ Quiz</li> </ul>

		<b>REVISION AND HALF YEALY EXAMINATION</b>		➤ Use earthworms for vermicomposting	
<b>OCTOBER</b>	➤ About Birds	<ul style="list-style-type: none"> <li>➤ Analyse the different part of birds</li> <li>➤ Classify the different bird feathers</li> <li>➤ Recognise that some birds do not fly</li> <li>➤ Understands that Birds live in nest</li> <li>➤ Recognise that some birds live in water</li> </ul>	<ul style="list-style-type: none"> <li>➤ Story telling</li> <li>➤ Video clips</li> <li>➤ Group discussions</li> </ul>	<ul style="list-style-type: none"> <li>➤ Can engage in ornithology</li> <li>➤ Love and empathy towards birds</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen-paper test</li> <li>➤ Summarising</li> <li>➤ Quiz</li> <li>➤ puzzles</li> </ul>
<b>NOVEMBER</b>	<ul style="list-style-type: none"> <li>➤ Work we do</li> <li>➤ Games we play</li> </ul>	<ul style="list-style-type: none"> <li>➤ Understands that different people have different jobs</li> <li>➤ Understands that making childrens do work in harmful places is wrong.</li> <li>➤ Classify different types of games</li> <li>➤ Recognise that games help us to relax</li> <li>➤ It gives us exercise</li> </ul>	<ul style="list-style-type: none"> <li>➤ Video clips</li> <li>➤ Hands on training</li> <li>➤ Hands on training</li> <li>➤ Science cards</li> <li>➤ Video clips</li> </ul>	<ul style="list-style-type: none"> <li>➤ Help them to choose an ambition</li> <li>➤ Understand the different job opportunities</li> <li>➤ Help children trapped in different harmful working places.</li> <li>➤ Helps children to make use of their leisure time</li> <li>➤ Maintain their body fit</li> </ul>	<ul style="list-style-type: none"> <li>➤ Summarising</li> <li>➤ Puzzles</li> <li>➤ Pen-paper test</li> <li>➤ Puzzles</li> <li>➤ Quiz</li> <li>➤ Pen-paper test</li> </ul>



DECEMBER	➤ Art of pot making	<ul style="list-style-type: none"> <li>➤ Understands that vessels can also be made from clay</li> <li>➤ Analyse the way of making clay pots</li> </ul>	<ul style="list-style-type: none"> <li>➤ Video clips</li> <li>➤ Group discussion</li> <li>➤ Science cards</li> </ul>	<ul style="list-style-type: none"> <li>➤ Buy good quality clay pots</li> </ul>	<ul style="list-style-type: none"> <li>➤ Summarising</li> <li>➤ Pen-paper test</li> </ul>
	➤ Story of cloth making	<ul style="list-style-type: none"> <li>➤ Classify different types of cloth materials they wear</li> <li>➤ Recognise that animals and plants provide materials for cloth making</li> <li>➤ People living places wear different types of cloth</li> </ul>	<ul style="list-style-type: none"> <li>➤ Group discussions</li> <li>➤ Hands on training</li> <li>➤ Video clips</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interior Decoration with clay items</li> <li>➤ Tailoring and embroidery work can be used for profession</li> <li>➤ Start ones own set up of fabric designing</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen-paper test</li> <li>➤ Science exhibitions</li> <li>➤ Quiz</li> </ul>
	➤ Celebrating festivals	<ul style="list-style-type: none"> <li>➤ Classify the different festivals</li> <li>➤ Understands the different national festivals</li> </ul>	<ul style="list-style-type: none"> <li>➤ Video clips</li> <li>➤ Group discussions</li> </ul>	<ul style="list-style-type: none"> <li>➤ Arouse patriotic feeling among the students</li> <li>➤ Develop a feeling of unity among the students</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen-paper test</li> <li>➤ Oral test</li> <li>➤ puzzle</li> </ul>
JANUARY	➤ Locating places	<ul style="list-style-type: none"> <li>➤ Understand the different sign language</li> <li>➤ Recognise the different symbols during travelling.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Group discussions</li> <li>➤ Science cards.</li> </ul>	<ul style="list-style-type: none"> <li>➤ To travel safely</li> <li>➤ To make use of the different symbols during travelling</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen-paper test</li> <li>➤ Quiz</li> </ul>



	<ul style="list-style-type: none"> <li>➤ Means of transport</li> </ul>	<ul style="list-style-type: none"> <li>➤ Classify the different vehicles according to their size</li> </ul>	<ul style="list-style-type: none"> <li>➤ Group discussion</li> <li>➤ Video clip</li> </ul>	<ul style="list-style-type: none"> <li>➤ Make the use of google map and compass</li> <li>➤ Make different use of vehicles for transport</li> <li>➤ Work in automobile companies</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen-paper test</li> <li>➤ Quiz</li> <li>➤ puzzle</li> </ul>
<b>FEBRUARY</b>	<ul style="list-style-type: none"> <li>➤ Means Of Communication</li> </ul>	<ul style="list-style-type: none"> <li>➤ Understands that communication is very essential in daily life</li> <li>➤ Classify the different means of communication</li> </ul>	<ul style="list-style-type: none"> <li>➤ Group discussions</li> <li>➤ Video clips</li> </ul>	<ul style="list-style-type: none"> <li>➤ Use different appliances for communication</li> <li>➤ Open new social networking accounts</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen-paper test</li> <li>➤ Quiz</li> <li>➤ Puzzles</li> </ul>
	<ul style="list-style-type: none"> <li>➤ Special people</li> </ul>	<ul style="list-style-type: none"> <li>➤ Understand that all students are not equal in abilities</li> <li>➤ There are different places for differently abled people</li> </ul>	<ul style="list-style-type: none"> <li>➤ Group discussions</li> <li>➤ Video clips</li> </ul>	<ul style="list-style-type: none"> <li>➤ Students understand to treat the differently abled people with care and love</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen-paper test</li> <li>➤ Quiz</li> <li>➤ puzzles</li> </ul>
<b>MARCH</b>		<b>ANNUAL EXAMINATION</b>			

**Subject: Maths**

Month	Topic	Learning Objectives	Pedagogical strategies	Learning outcomes	Assessment Strategy
June	1. Large numbers	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Read and write numbers upto 10000</li> <li>• Understand the placevalue and face value.</li> <li>• Compare and order numbers upto 9999</li> <li>• Form smallest and greatest numbers.</li> <li>• Round numbers to nearest 10 and 100.</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Discussion</li> </ul>	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• read and write greater numbers.</li> <li>• Write digits as per place value</li> <li>• Compare and order numbers</li> <li>• Form greater and smaller numbers.</li> <li>• Round numbers to nearest 10 and 100</li> </ul>	<ul style="list-style-type: none"> <li>• Pen and paper test</li> <li>• Work sheet</li> </ul>
July	2. Addition and Subtraction	<p>Students will able to</p> <ul style="list-style-type: none"> <li>• Understand adding numbers without and with carrying</li> <li>• Properties of addition.</li> <li>• Understand subtracting numbers with and without borrowing</li> <li>• Properties of subtraction</li> <li>• Word problems</li> <li>• Estimation</li> </ul>	<ul style="list-style-type: none"> <li>• Realia</li> <li>• Smart class</li> <li>• Pose questions</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• Addition and subtraction properties</li> <li>• Add and subtract large numbers</li> <li>• Solve word problems</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Pen and paper test</li> <li>• Oral questions.</li> </ul>
August	3. Multiplication	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Understand multiplication facts of 6, 7, 8 and 9</li> <li>• Properties of</li> </ul>	<ul style="list-style-type: none"> <li>• Pose questions</li> <li>• Discussions</li> <li>• Smart class</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• Multiplication and its properties</li> <li>• Solve</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Pen and paper test</li> </ul>

		multiplication <ul style="list-style-type: none"> <li>• Multiplication without and with regrouping</li> <li>• More multiplication</li> <li>• Solve word problems</li> </ul>		multiplication using different methods. <ul style="list-style-type: none"> <li>• Solve word problems</li> </ul>	
September	4.Division	Students will be able to <ul style="list-style-type: none"> <li>• Understand equal sharing and grouping</li> <li>• Division as repeated subtraction</li> <li>• Division on number line</li> <li>• Division without and with remainder</li> <li>• Divide and check</li> <li>• Solve word problems</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Realia</li> <li>• Discussion</li> </ul>	Students will be able to realise <ul style="list-style-type: none"> <li>• Concepts of division</li> <li>• Properties of division</li> <li>• Methods of dividing and checking</li> <li>• Solve word problems</li> </ul>	<ul style="list-style-type: none"> <li>• Pen and paper test</li> <li>• Quiz</li> <li>• Oral questions</li> </ul>
October <div>HALF YEARLY EXAM AND REVISION</div>					
November	5.Fractions	Students will be able to <ul style="list-style-type: none"> <li>• Understand fractions</li> <li>• Unit fractions</li> <li>• Pair and share</li> <li>• Naming fractions</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Discussions</li> <li>• project</li> </ul>	Students will be able to realise <ul style="list-style-type: none"> <li>• Types of fractions</li> <li>• Operations on fractions</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Pen and paper test</li> </ul>
	6.Shapes	Students will be able to <ul style="list-style-type: none"> <li>• Understand about plane and solid shapes</li> <li>• Parts of a circle</li> <li>• Point, line ,line segment and ray</li> <li>• Making shapes in the dot grid</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Interactive lecture</li> </ul>	Students will be able to realise <ul style="list-style-type: none"> <li>• about plane and solid shapes</li> <li>• lines and its measurement</li> </ul>	<ul style="list-style-type: none"> <li>• Pen and paper test</li> <li>• Class edge activity</li> </ul>

				<ul style="list-style-type: none"> <li>circle and its parts</li> </ul>	
December	7. Measurement	Students will be able to <ul style="list-style-type: none"> <li>Understand measuring and converting length in metres and centimetres</li> <li>measuring and converting length in kilometres and metres</li> <li>addition and subtraction of length</li> <li>measuring and converting weight in kilograms and grams</li> <li>addition and subtraction of weight</li> <li>measuring and converting volume in litres and millilitres</li> <li>addition and subtraction of capacity</li> </ul>	<ul style="list-style-type: none"> <li>Discussion</li> <li>Smart class</li> <li>Realia</li> </ul>	Students will be able to realise <ul style="list-style-type: none"> <li>the conversion of units</li> <li>Solve problems involving units of measurement</li> <li>Understand relationship between various units of measurement</li> </ul>	<ul style="list-style-type: none"> <li>Oral questions</li> <li>Quiz</li> <li>Pen and paper test</li> </ul>
January	8.Time	Students will be able to <ul style="list-style-type: none"> <li>Understand telling time in hours, half hours and quarter hours</li> <li>Telling time correct to 5 minutes</li> <li>Calendar</li> </ul>	<ul style="list-style-type: none"> <li>Pose questions</li> <li>Realia</li> </ul>	Students will be able to realise <ul style="list-style-type: none"> <li>Time reading</li> <li>Telling time correct to 5 minutes</li> <li>Calendar</li> </ul>	<ul style="list-style-type: none"> <li>Oral questions</li> <li>Pen and paper test</li> </ul>
February	9.Money	Students will be able to <ul style="list-style-type: none"> <li>Understand the conversion of money</li> <li>Addition and subtraction of money</li> </ul>	<ul style="list-style-type: none"> <li>Interactive lecture</li> <li>Discussion</li> </ul>	Students will be able to realise <ul style="list-style-type: none"> <li>The conversion of money</li> <li>Solving basic</li> </ul>	<ul style="list-style-type: none"> <li>Oral questions</li> <li>Quiz</li> </ul>

	10.Data Handling	<ul style="list-style-type: none"> <li>• Multiplication and division of money</li> <li>• Solve word problems</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Recording data using tally marks</li> <li>• Drawing and interpreting pictograph</li> <li>• Reading and interpreting bar graph</li> </ul>	<ul style="list-style-type: none"> <li>• Pose questions</li> <li>• Discussion</li> </ul>	<p>mathematical operations of money</p> <ul style="list-style-type: none"> <li>• Solve word problems</li> </ul> <p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• Data handling</li> <li>• Recording data using tally marks</li> <li>• Draw and interpret graphs</li> </ul>	<ul style="list-style-type: none"> <li>• Pen and paper test</li> <li>• Oral questions</li> </ul>
March	11.Patterns and symmetry	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Understand different types of patterns</li> <li>• Making patterns with shapes</li> <li>• Growing patterns</li> <li>• Symmetry</li> </ul>	<ul style="list-style-type: none"> <li>• Project</li> <li>• Pose questions</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• The types of patterns</li> <li>• Symmetry</li> </ul>	<ul style="list-style-type: none"> <li>• Worksheet</li> <li>• Class edge activity</li> </ul>
Revision and Exam					

**Subject: Malayalam**

June 1 ഇറുശര പ്രാർത്ഥന 2. അകമില്ലാത്തതില പൂർജില്ലാത്തതില	പാരായണം, കവിപരിചയം വായന, കണ്ടെത്തൽ	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ, ശേഖരണം	പ്രാർത്ഥനയുടെ മഹത്വമറിയുന്നു ചിന്താശേഷി വർദ്ധിക്കുന്നു
July 3 തോറ്റോടിയ പട 4 സ്വന്തം വടിയും സ്വന്തം മൃഗവും	പാരായണം, കവിപരിചയം വായന	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	അഹങ്കാരം ആപത്ത് യുദ്ധം നാശത്തിന് സഹജീവിസ്നേഹം ഉണ്ടാകുന്നു
Aug 5 ഏകനായ് നടന്നു നീ	പാരായണം, കവിപരിചയം	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ കുറിപ്പ്	ദേശസ്നേഹം വളർത്തുന്നു
Sep 6 ഓളിമ്പിക്സ് മത്സരങ്ങൾ	വായന, അറിയൽ	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	ഓളിമ്പിക്സ് മത്സരങ്ങളെ അറിയുന്നു
Oct 7. പരുക്കേറ്റ കുട്ടി	പാരായണം, കവിപരിചയം	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	ഭാഷാശേഷി വളർത്തുന്നു മാതൃസ്നേഹം
Nov 8. കേരള സിംഹം	വായന	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	പരിതഃസ്ഥിതം ഉള്ളവരാകുന്നു
Dec 9 കുഞ്ഞുണ്ണി	വായന	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ, ശേഖരണം	സർഗ്ഗങ്ങൾ തിരിച്ചറിയുന്നു
10. ബകവധം	വായന	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	പുരാണകഥകളിലെ നന്മ തിരിച്ചറിയുന്നു
Jan 11 എന്റെ തോണി	പാരായണം, കവിപരിചയം	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	ഭാവനാപൂർണ്ണമായ ആശയങ്ങൾ എഴുതുന്നു
Feb 12 സ്വാർത്ഥനായ രാക്ഷസൻ	വായന	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	കഥാസ്വരണം, സ്വാർത്ഥത വെടിയുന്നു
Mar 13 നല്ല സ്വപ്നം	വായന ലേഖകനെ അറിയുന്നു	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ശേഖരണം	പ്രായോഗിക ബുദ്ധി ഉള്ളവരാകുന്നു



**Subject: Hindi**

MONTH	TOPIC	SHORT TERM GOALS	PEDAGOGICAL PRACTICES	LONG TERM GOALS (LEARNING OUTCOMES) STUDENTS WILL BE ABLE TO;	ASSESSMENT STRATEGY
JUNE	punaravaRi%t	punaravat-na sao puna:smarNa.	pustk kl sahayata sao pizt paz daohranaa.	nae Sabd banaanao kl jaanakarl p`aPt kmaa.	p`Sna pUCnaa.
JULY	punaravaRi%t	punaravat-na sao puna:smarNa.	pustk kl sahayata sao pizt paz daohranaa.	nae Sabd banaanao kl jaanakarl p`aPt kmaa.	p`Sna pUCnaa.
AUGUST	maa~a pircaya	e, eo kl maa~ae^ lagaakr nae Sabd banaanaa.	ica~ kl sahayata sao Alaga Alaga Alaga maa~aAaoM kao phcaananaa.	nae Sabd banaanao kl jaanakarl p`aPt kmaa.	maa~a lagaakr ilaKnaa.
SEPTEMBER	maa~a pircaya	Aao ,AaO, AM kl maa~ae^ lagaakr nae Sabd banaanaa.	ica~ kl sahayata sao Alaga Alaga Alaga	nae Sabd banaanao kl jaanakarl p`aPt kmaa.	imalaana kmaa.

			maa~aAaoM kao phcaananaa.		
OCTOBER	maa~a pircaya, punarava-tna	ivasaga- AaOr caMd`ibandu lagaakr nae Sabd banaanaa.	ica~ kl sahayata sao Alaga Alaga Alaga maa~aAaoM kao phcaananaa.	nae Sabd banaanao kl jaanakarl p`aPt kmaa.	AMtr phcaananaa .
NOVEMBER	caMd`ibandu , svar AaOr baarhKDI , saMyau@taxar, ijasanao saUrja caa^d banaayaa.	svar AaOr baarhKDI ka sahl ]ccaarNa , Aqa- pyaa-yavaacal , ivalaaoma Sabd Aaid kl jaanakarl.	tala laya ko saaqa pZnao kao isaKanaa.	[-Svar pr Aasqaa rKkr Aagao baZnao kl takt p`aPt kmaa.Axar jaaoDkr vaacana kmao kl xamata p`aPt kmaa.	baarhKDI ilaKnaa.
DECEMBER	Saor AaOr caUha	Aqa- , ivalaaomaSabd, pyaa-yavaacal, p`Snaao%tr kl jaanakarl.	sahl ]ccaarNa saiht vaacana kmao ko ilae isaKanaa.	praopkar kl Baavanaa ]%pna kmaa.	vaacana kmaa.
JANUARY	KrgaaoSa ka [laaja, maurgal kl raoiTyaa^	sahl Aqa- ilaKnaa, pUra kmaa, vaa@ya banaanaa, imalaana kmaa Aaid kl jaanakarl.	hava Baava ko saaqa ]ccaarNa kmao kao isaKanaa.	sahyaaoga evaM ima~ta kl Baavanaa ]%pna kmaa.	laGau p`Sna pUCnaa.
FEBRUARY	zlk samaya pr , ?tuAaoM, idnaaoM evaM mahlnaaoM ka	Sabdaqa- , ?tuAaoM kl phcaana, idnaaoM evaM mahlnaaoM kl jaanakarl,	pustk kl sahayata sao pZanaa.namaU	samaya pr kama kmao kl xamata	bahuivaklpl p`Sna

	naama ,iganatl	iganaityaaomkao AMkaoM AaOr SabdaoM maoM jaananaa	naa idKakr isaKanaa.	baZanaa.	
MARCH	punarava-tna				

**Subject: English**

Month	Topic	Learning objectives (short term goal)	Pedagogical Practices	Learning outcome ( Long term goal)
June	<ul style="list-style-type: none"> <li>➤ Max's words</li> <li>➤ There isn't time(Poem)</li> </ul>	<ul style="list-style-type: none"> <li>➤ To recognise different hobbies</li> <li>➤ Comprehend a story</li> <li>➤ Differentiate between countable and uncountable nouns</li> <li>➤ Understand different places in the world and each have unique environment</li> <li>➤ Understand rhyming words</li> </ul>	<ul style="list-style-type: none"> <li>➤ Class discussion</li> <li>➤ Nesting words</li> <li>➤ Paragraph writing</li> <li>➤ Worksheets</li> </ul>	<ul style="list-style-type: none"> <li>➤ Inculcate hobbies</li> <li>➤ Identify countable and uncountable nouns</li> <li>➤ Able to write a paragraph about their hobbies</li> <li>➤ Unscramble and make meaningful words.</li> <li>➤ Able to find out rhyming words</li> </ul>
July	<ul style="list-style-type: none"> <li>➤ The apple dumpling</li> </ul> <p>PT 1 EXAMINATION</p>	<ul style="list-style-type: none"> <li>➤ To understand the barter system</li> <li>➤ Identify different pronouns</li> <li>➤ Know the use of different punctuation in sentences</li> </ul>	<ul style="list-style-type: none"> <li>➤ Role play</li> <li>➤ Writing- Diary entry</li> <li>➤ worksheets</li> </ul>	<ul style="list-style-type: none"> <li>➤ learn about barter as a means of trade</li> <li>➤ use suitable pronouns to complete sentences</li> <li>➤ able to write sentences with</li> </ul>

				correct punctuations
August	<ul style="list-style-type: none"> <li>➤ In-house garden</li> <li>➤ The tree (poem)</li> </ul>	<ul style="list-style-type: none"> <li>➤ To understand how biodegradable waste can be reused as compost. This is the way to giving back to nature instead of piling them in dump yards.</li> <li>➤ Understand simple tenses</li> <li>➤ Understand homophones</li> <li>➤ Enhance creativity</li> <li>➤ Understand alliteration in rhymes</li> </ul>	<ul style="list-style-type: none"> <li>➤ Story telling</li> <li>➤ Discussion</li> <li>➤ Worksheets for grammar</li> <li>➤ Writing a short paragraph</li> <li>➤ Making a flower file</li> <li>➤ recitation</li> </ul>	<ul style="list-style-type: none"> <li>➤ Become aware of food wastage and how compost can be made from wasted food</li> <li>➤ Apply simple tenses in sentences appropriately</li> <li>➤ Identify the correct word from a pair of homophones</li> <li>➤ Able to write a short paragraph on given topic</li> <li>➤ Create a flower file</li> <li>➤ Identify alliterative words</li> <li>➤ Able to recite a poem with appropriate gestures</li> </ul>
September	<ul style="list-style-type: none"> <li>➤ A life for others</li> </ul>	<ul style="list-style-type: none"> <li>➤ To understand how trees help to prevent natural disasters and fauna of a place</li> <li>➤ Distinguish the difference between regular and irregular verbs</li> </ul>	<ul style="list-style-type: none"> <li>➤ Group discussion</li> <li>➤ Story telling</li> <li>➤ Worksheets</li> <li>➤ Smart class</li> </ul>	<ul style="list-style-type: none"> <li>➤ To do something to keep the earth clean and habitable</li> <li>➤ Understand the responsibility to keep a healthy environment to live</li> <li>➤ Comprehend a story</li> </ul>

	REVISION			<ul style="list-style-type: none"> <li>➤ Identify between regular and irregular verbs</li> <li>➤ Speak about their opinion</li> </ul>
October	<p>HALF YEARLY EXAMINATION</p> <ul style="list-style-type: none"> <li>➤ A born dreamer</li> </ul>	<ul style="list-style-type: none"> <li>➤ To understand how organisation such as ISRO and DRDO help further aerospace research</li> <li>➤ Understand a biographical passage</li> <li>➤ Identify adjectives of comparison</li> </ul>	<ul style="list-style-type: none"> <li>➤ Writing a profile</li> <li>➤ Audio-visual aids</li> <li>➤ Worksheets</li> <li>➤ Paragraph writing</li> </ul>	<ul style="list-style-type: none"> <li>➤ Learn about aerospace engineering and the work of organisations such as ISRO and DRDO</li> <li>➤ Able to write a profile about an admired person</li> <li>➤ Apply adjectives of comparison to sentences</li> </ul>
November	<ul style="list-style-type: none"> <li>➤ You can't be that(poem)</li> <li>➤ A dream come true</li> </ul>	<ul style="list-style-type: none"> <li>➤ To recognize that there are several different professions that people pursue and they all touch our lives in different ways</li> <li>➤ Understand the concept of repetition in a poem</li> <li>➤ To understand the cause of illiteracy in our country</li> </ul>	<ul style="list-style-type: none"> <li>➤ Completing a poem</li> <li>➤ Recitation</li> <li>➤ Role play</li> <li>➤ Writing an informal letter</li> </ul>	<ul style="list-style-type: none"> <li>➤ Learn about different professions and how they help us</li> <li>➤ Understand the use of rhyming words</li> <li>➤ Identify the instances of repetition in a poem</li> <li>➤ Aware about the role of each educated individual towards his/her less privileged countrymen</li> </ul>

				➤ Enhance speaking skills
December	➤ Tenali Rama and the three dolls	➤ Understand the importance of wit and wisdom in our life ➤ Identify suitable conjunctions to join sentences ➤ Differentiate between definite and indefinite article	➤ Story telling ➤ Worksheets ➤ Writing a notice ➤ Smart class	➤ Able to use intelligence for problem solving ➤ Enhance speaking skills ➤ Prepared a notice ➤ Able to use definite and indefinite articles appropriately
January	➤ Daddy's making dinner. (poem)  PT 2 EXAMINATION	➤ To recognise that the so called 'boy's task' and 'girl's task' can be performed by anyone ➤ Understand what linking words are and what purpose they serve in a paragraph ➤ Understand what onomatopoeia and why poets use it	➤ Recite a poem ➤ Paragraph writing ➤ Work sheets	➤ Gets know a little of, in order to manage one's life independently ➤ Identify instance of onomatopoeia in a poem ➤ Able to write a paragraph using linking words
February	➤ Who is cleverer?	➤ To understand what mythology is and what role it serves in modern lifes	➤ Crossword puzzle ➤ Writing an informal letter ➤ Write a picture story	➤ Understand every culture has its own body of myth.

		➤ Understand preposition of position and time ➤ Identify suitable punctuation to a paragraph	➤	➤ Learn about Greek mythology ➤ Able to apply preposition of position and time ➤ Able to mark correct punctuations.
March	Revision and Annual Exam			



**Annual Pedagogical Plan 2020-2021**

**Class IV**

**Subject: Science**

Month	Chapter	Short term learning outcomes	Pedagogical strategies	Assessment strategies	Long term learning outcomes
June	1. Plants - the food factories.	Students will be able to <ul style="list-style-type: none"> <li>➤ Understand , how do plants make food?</li> <li>➤ Recognize , the plants that live on other plants.</li> <li>➤ Analyse , about the plants that eat animals.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Discussion</li> <li>➤ Smart class</li>   <li>➤ Demonstration</li> <li>➤ Individual activities</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pasting pictures</li> <li>➤ Flow chart</li>   <li>➤ Assignment</li> <li>➤ Scientific reasoning</li> </ul>	Students will be able to realise <ul style="list-style-type: none"> <li>➤ Plants prepare their own food by photosynthesis.</li> <li>➤ Chlorophyll is the green substance in leaves.</li> </ul>
	2. Plant adaptation.	Students will be able to <ul style="list-style-type: none"> <li>➤ Understand , the terms habitat and adaptation.</li> <li>➤ Classify, the plants as terrestrial and aquatic.</li> <li>➤ Analyse , the adaptations in different habitats.</li> </ul>			Students will be able to realise <ul style="list-style-type: none"> <li>➤ Plants grow in a particular habitat have adaptations to suit the habitat.</li> <li>➤ Concern for the environment.</li> </ul>
July	3. Animal adaptations	Students will be able to <ul style="list-style-type: none"> <li>➤ Recognise, adaptations of animals for habitat and climate.</li> <li>➤ Analyse, adaptation for feeding.</li> <li>➤ Identify, adaptations for protection.</li> </ul> REVISION PT 1 EXAMINATION	<ul style="list-style-type: none"> <li>➤ Smart class</li> <li>➤ Concept map</li> </ul>	<ul style="list-style-type: none"> <li>➤ Cross word puzzle.</li> <li>➤ Paper test</li> </ul>	Student will be able to realise <ul style="list-style-type: none"> <li>➤ Animals can be grouped according to their habitat.</li> <li>➤ Birds have strong wings and hollow bones to fly.</li> </ul>

August	<p>4. Reproduction in animals</p> <p>5. Food and nutrition</p>	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand, the term reproduction.</li> <li>➤ Recognise, animals reproduce by giving birth or laying eggs.</li> <li>➤ Analyse, the life cycle of different animals.</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Recognise, nutrients in food.</li> <li>➤ Aware about the importance of balanced diet and exercise.</li> <li>➤ Analyse, the need of cooking and preserving food.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pose questions</li> <li>➤ Interactive lectures.</li> </ul> <ul style="list-style-type: none"> <li>➤ Group discussion</li> <li>➤ Smart class</li> </ul>	<ul style="list-style-type: none"> <li>➤ Labelling the diagram</li> <li>➤ Oral test.</li> </ul> <ul style="list-style-type: none"> <li>➤ Classification.</li> <li>➤ Quiz.</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Animals reproduce in different ways.</li> <li>➤ Life cycle of a butterfly.</li> </ul> <p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ The importance of nutrition.</li> <li>➤ Sources of different nutrients.</li> </ul>
September	6. Digestion and our teeth.	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Analyse, Digestive system in humans.</li> <li>➤ Recognise, the structure of a tooth.</li> <li>➤ Analyse, the types of teeth.</li> <li>➤ Aware about how to take care of the teeth.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Observation</li> <li>➤ Discussion.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Labelling</li> <li>➤ Identification.</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Food breaks down by digestion.</li> <li>➤ There are 32 permanent teeth in an adult.</li> </ul>
October	7. Our clothes	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Recognise, the need for clothes.</li> <li>➤ Identify, the types of clothes.</li> <li>➤ Understand, about fibres.</li> </ul> <p>REVISION HALF YEARLY EXAMINATION</p>	<ul style="list-style-type: none"> <li>➤ Observation</li> <li>➤ Smart class</li> </ul>	<ul style="list-style-type: none"> <li>➤ Flow chart</li> <li>➤ Paper test</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Natural and synthetic fibres.</li> <li>➤ About wearing clothes depending on weather.</li> </ul>

November	8. Safety and first aid.	Students will be able to <ul style="list-style-type: none"> <li>➤ Understand, the rules to be followed in various places.</li> <li>➤ Recognise, about first aid.</li> <li>➤ Prepare, a first aid box.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Group discussion.</li> <li>➤ Smart class.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Model making.</li> <li>➤ Oral test.</li> </ul>	Students will be able to realise <ul style="list-style-type: none"> <li>➤ The traffic rules to be followed.</li> <li>➤ How to carry out simple first aid.</li> </ul>
	9. Matter and its states.	Students will be able to <ul style="list-style-type: none"> <li>➤ Understand, the states of matter.</li> <li>➤ Analyse, change of state</li> <li>➤ Recognise about mixture and solution.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Smart class.</li> <li>➤ Demonstration.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Preparing solutions</li> <li>➤ Quiz.</li> </ul>	Students will be able to realise <ul style="list-style-type: none"> <li>➤ Matter is made up of molecules.</li> <li>➤ Different states of matter.</li> <li>➤ How to make a solution.</li> </ul>
December	10. Force work and energy.	Students will be able to <ul style="list-style-type: none"> <li>➤ Understand, Force and its effects.</li> <li>➤ Analyse, about work and simple machines.</li> <li>➤ Recognise about the term energy related to work.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interactive lectures.</li> <li>➤ Observation</li> <li>➤ Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>➤ Paper test.</li> <li>➤ List out some simple machines.</li> </ul>	Students will be able to realise <ul style="list-style-type: none"> <li>➤ Types of forces.</li> <li>➤ Simple machines</li> <li>➤ Different sources of energy.</li> </ul>
January	11. The environment.	Students will be able to <ul style="list-style-type: none"> <li>➤ Understand, the term environment.</li> <li>➤ Analyse, about environmental pollution.</li> <li>➤ Aware, about waste management.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Observation</li> <li>➤ Smart class</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pasting pictures.</li> <li>➤ Model making.</li> </ul>	Students will be able to realise <ul style="list-style-type: none"> <li>➤ How to reduce environmental pollution.</li> <li>➤ 4-R rule for waste management.</li> </ul>
	12. Air ,Water and Weather.	Students will be able to <ul style="list-style-type: none"> <li>➤ Understand, about weather and climate.</li> <li>➤ Analyse, about wind movement.</li> <li>➤ Recognise , about water and its importance.</li> </ul> <p>REVISION &amp; P T 2 EXAMINATION</p>	<ul style="list-style-type: none"> <li>➤ Smart class</li> <li>➤ Interactive tutoring.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Slogans- conservation of water.</li> <li>➤ Flow chart.</li> </ul>	Students will be able to realise <ul style="list-style-type: none"> <li>➤ Role of the sun in weather and climate.</li> <li>➤ Land and sea breeze.</li> <li>➤ About water conservation.</li> </ul>

February	13. The universe	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand, solar system.</li> <li>➤ Identify , about big bang theory.</li> <li>➤ Aware about the layers of earth</li> <li>➤ Recognise , the movement of earth.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Smart class</li> <li>➤ Group discussion.</li> <li>➤ Interactive lecturing.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Project.</li> <li>➤ Oral test</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Solar system.</li> <li>➤ Rotation and revolution of earth.</li> </ul>
	14. Measuring time and temperature	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Analyse the need of measurement</li> <li>➤ Recognise , about estimation.</li> <li>➤ Understand, about time and temperature.</li> <li>➤ Know about the units of time and temperature.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Discussion</li> <li>➤ Observation.</li> <li>➤ Individual activities.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Measuring time.</li> <li>➤ Paper test.</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Measurement of time and temperature.</li> <li>➤ Different units of time.</li> </ul>
March		<p>REVISION</p> <p>ANNUAL EXAMINATION</p>			

**Subject: Social Science**

Month	Lesson	Learning Objective	Pedagogical Practice	Learning Outcome
June	<ul style="list-style-type: none"> <li>➤ Our India</li> <li>➤ Northern Mountains</li> </ul>	<ul style="list-style-type: none"> <li>➤ To understand the neighbouring countries</li> <li>➤ Physical division</li> <li>➤ States and Union Territories</li> <li>➤ North Mountains</li> <li>➤ Climate, life style, vegetations, wild life</li> <li>➤ Importance of Northern Mountains</li> </ul>	<ul style="list-style-type: none"> <li>➤ Map</li> <li>➤ Project</li> <li>➤ Diary entry</li> <li>➤ Poster</li> </ul>	<ul style="list-style-type: none"> <li>➤ Patriotism</li> <li>➤ Love towards nature</li> </ul>
July	<ul style="list-style-type: none"> <li>➤ Northern Plain</li> <li>➤ Western Desert</li> </ul>	<ul style="list-style-type: none"> <li>➤ Learn location</li> <li>➤ Major rivers</li> <li>➤ States in this region</li> <li>➤ Life and Culture</li> </ul>	<ul style="list-style-type: none"> <li>➤ Group Discussion</li> <li>➤ Diary Entry</li> </ul>	<ul style="list-style-type: none"> <li>➤ Protection of rivers or natural resources</li> <li>➤ Exploration of different cultures</li> </ul>
August	<ul style="list-style-type: none"> <li>➤ Southern Plateau</li> <li>➤ Coastal Plains and Islands</li> </ul>	<ul style="list-style-type: none"> <li>➤ Location</li> <li>➤ Life and Culture of these area</li> </ul>	<ul style="list-style-type: none"> <li>➤ Scrap book</li> <li>➤ Map</li> <li>➤ Corel Corner</li> <li>➤ Poster</li> </ul>	<ul style="list-style-type: none"> <li>➤ Conservation of minerals</li> <li>➤ Protection of Western Ghat</li> <li>➤ Think about climate changes</li> </ul>
September	<ul style="list-style-type: none"> <li>➤ Climate of India</li> </ul>	<ul style="list-style-type: none"> <li>➤ Difference between climate and season</li> <li>➤ Climate of India</li> <li>➤ Main seasons</li> </ul>	<ul style="list-style-type: none"> <li>➤ Collage</li> <li>➤ Group discussion</li> </ul>	<ul style="list-style-type: none"> <li>➤ Find out the type of climate of this city</li> </ul>
October	<ul style="list-style-type: none"> <li>➤ Natural resources of India</li> <li>➤ Soil of India</li> <li>➤ Soil Erosion</li> </ul>	<ul style="list-style-type: none"> <li>➤ Different types of resources</li> <li>➤ How soil is formed</li> </ul>	<ul style="list-style-type: none"> <li>➤ Role play</li> <li>➤ List making</li> <li>➤ Group discussion</li> </ul>	<ul style="list-style-type: none"> <li>➤ Caring towards earth</li> </ul>

		➤ Types of soil		
November	<ul style="list-style-type: none"> <li>➤ Our forest resources</li> <li>➤ Our water resources</li> </ul>	<ul style="list-style-type: none"> <li>➤ Types of forest</li> <li>➤ Wild life</li> <li>➤ Conserve forest and wild life</li> <li>➤ Sources of water</li> <li>➤ About drinking water</li> </ul>	<ul style="list-style-type: none"> <li>➤ Map</li> <li>➤ Plant saplings</li> <li>➤ Poster</li> <li>➤ Role play</li> <li>➤ Collage</li> </ul>	<ul style="list-style-type: none"> <li>➤ Conservation of forest</li> <li>➤ Protection of water</li> </ul>
December	<ul style="list-style-type: none"> <li>➤ Our mineral resources</li> </ul>	<ul style="list-style-type: none"> <li>➤ Minerals and States rich in minerals</li> <li>➤ Conserve minerals</li> </ul>	<ul style="list-style-type: none"> <li>➤ Collage</li> </ul>	<ul style="list-style-type: none"> <li>➤ Limit the use of minerals</li> </ul>
January	<ul style="list-style-type: none"> <li>➤ Our agriculture</li> <li>➤ Our industry</li> </ul>	<ul style="list-style-type: none"> <li>➤ Importance of agriculture</li> <li>➤ Crops grown in India</li> <li>➤ Green revolution</li> <li>➤ Types of industries</li> <li>➤ Information technology</li> </ul>	<ul style="list-style-type: none"> <li>➤ Field trip</li> <li>➤ Map work</li> <li>➤ Essay writing</li> <li>➤ Project</li> </ul>	<ul style="list-style-type: none"> <li>➤ Afforestation</li> <li>➤ Sustainable development</li> </ul>
February	<ul style="list-style-type: none"> <li>➤ Our transport</li> <li>➤ Local self Government</li> </ul>	<ul style="list-style-type: none"> <li>➤ Types of transport system</li> <li>➤ Levels of Government</li> <li>➤ About the Courts</li> </ul>	<ul style="list-style-type: none"> <li>➤ Collage</li> <li>➤ Group discussion</li> <li>➤ Conduct mock election</li> </ul>	<ul style="list-style-type: none"> <li>➤ Car pooling</li> <li>➤ Respect towards our Government</li> </ul>
March	<ul style="list-style-type: none"> <li>➤ Our rights and duties</li> <li>➤ Culture and people</li> </ul>	<ul style="list-style-type: none"> <li>➤ Constitution of India</li> <li>➤ Fundamental rights and duties</li> <li>➤ Directive principles</li> </ul>	<ul style="list-style-type: none"> <li>➤ Project</li> <li>➤ Make a Tirang (Tri colour)</li> </ul>	<ul style="list-style-type: none"> <li>➤ Respect and obey our rights</li> <li>➤ Love for our mother tongue</li> </ul>



**Subject: Maths**

Month	Topic	Learning Objectives	Pedagogical strategies	Learning outcomes	Assessment Strategy
June	1. Large Numbers	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Read and write numbers upto 10 lakh</li> <li>• write the digits according to place value</li> <li>• compare and order numbers</li> <li>• form greatest and smallest numbers</li> <li>• Round numbers to the nearest 10,100,1000</li> <li>• read and write Roman Numbers</li> </ul>	<ul style="list-style-type: none"> <li>• Realia</li> <li>• Smart class</li> <li>• discussion</li> </ul>	<p>Student will be able to realise</p> <ul style="list-style-type: none"> <li>• greater numbers</li> <li>• place value</li> <li>• form greater and smaller numbers</li> <li>• ascending and descending order</li> <li>• Roman numbers</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Pen - paper test</li> </ul>
	14.Patterns and symmetry	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Understand patterns in numbers</li> <li>• Symmetry</li> </ul>		<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• The types of patterns</li> <li>• Symmetry</li> </ul>	
July	2. Addition and Subtraction	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Add with and without regrouping</li> <li>• Understand Properties of addition</li> <li>• Subtract with and without</li> </ul>	<ul style="list-style-type: none"> <li>• Realia</li> <li>• Smart class</li> <li>• Pose questions discussion</li> </ul>	<p>Student will be able to realise</p> <ul style="list-style-type: none"> <li>• Addition subtraction properties</li> <li>• Add and subtract</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Summarising</li> <li>• Pen – paper test</li> </ul>



October	5. Factors and multiples	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Understand factors and common factors</li> <li>• Prime and composite numbers</li> <li>• Multiples, common multiples</li> </ul> <p>REVISION AND HALF YEARLY EXAMINATION</p>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Pose questions</li> <li>• Discussions</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• Factors and multiples</li> <li>• Common factors and common multiples</li> <li>• Prime and composite numbers</li> </ul>	<ul style="list-style-type: none"> <li>• Quiz</li> <li>• Oral questions</li> <li>• Worksheet</li> </ul>
November	6. Fractions	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Represent fractions</li> <li>• Simplify fractions</li> <li>• Understand equivalent fractions</li> <li>• Compare and order fractions</li> <li>• Add and subtract like fractions</li> <li>• Convert improper fractions to mixed and vice versa</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Discussion</li> <li>• Project</li> <li>• Interactive lecture</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• Types of fractions</li> <li>• Operations on fractions</li> <li>• Equivalent fractions</li> </ul>	<ul style="list-style-type: none"> <li>• Pen and paper test</li> <li>• Worksheet</li> <li>• Oral questions</li> </ul>
December	7. Decimals	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• represent fractions with denominators 10, 100, 1000</li> <li>• represent decimals as fractions</li> <li>• understand the place value chart for decimals</li> </ul>		<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• The method to represent decimals</li> </ul>	<ul style="list-style-type: none"> <li>• Worksheet</li> </ul>

January	11. Time	<ul style="list-style-type: none"> <li>draw pictorial representation of decimals</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>read time to the exact minute</li> <li>express time in 12 hour clock and 24 hour clock</li> <li>find the time duration of an event</li> <li>count no of days in a month</li> <li>understand the need for a leap year</li> </ul>	<ul style="list-style-type: none"> <li>Smart class</li> <li>Realia</li> <li>Discussion</li> </ul>	<ul style="list-style-type: none"> <li>Place value of decimals</li> <li>Represent decimals pictorially</li> </ul> <p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>Time reading</li> <li>Express time in 12 hour and 24 hour clock</li> <li>Find time duration of an event</li> <li>Concept of leap year</li> </ul>	<ul style="list-style-type: none"> <li>Quiz</li> <li>Pen and paper test</li> </ul>
	9.Measurement	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>relate metre to centimetre , centimetre to millimetre and metre to kilometre</li> <li>solve problems involving lengths and distances</li> <li>understand the relationship between various units of weight and volume</li> <li>convert units of length and volume from one unit to another</li> <li>determine sum and differences of lengths weight and volumes</li> </ul> <p>REVISION AND PT1 EXAMINATION</p>	<ul style="list-style-type: none"> <li>Smart class</li> <li>Pose questions</li> <li>group discussion</li> </ul> <ul style="list-style-type: none"> <li>discussion</li> <li>smart class</li> <li>realia</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>Relate the conversion of units</li> <li>Solve problems involving lengths and distances</li> <li>Understand relationship between various units of weight and volume</li> </ul>	<ul style="list-style-type: none"> <li>Oral questions</li> <li>Class edge activity</li> <li>Pen and paper test</li> </ul> <ul style="list-style-type: none"> <li>Pen and paper test</li> <li>Quiz</li> <li>Worksheet</li> </ul>

February	8. Shapes	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>distinguish between open and closed figure</li> <li>identify polygons</li> <li>measure and draw line segments</li> <li>draw circle ,identify parts of a circle</li> <li>draw plan elevation and side view of simple objects</li> </ul>	<ul style="list-style-type: none"> <li>smart class</li> <li>group discussion</li> <li>project</li> <li>realia</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>Open and closed figures</li> <li>Different polygons</li> <li>Lines and its measurement</li> <li>Circle and parts of a circle</li> <li>Plans and elevations of simple objects</li> </ul>	<ul style="list-style-type: none"> <li>Oral questions</li> <li>Quiz</li> <li>Pen and paper test</li> </ul>
	9. Perimeter and area	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>Define perimeter and area</li> <li>Calculate perimeter of rectangle, square, triangle and closed figures</li> <li>Find area of regular and irregular shapes</li> </ul>	<ul style="list-style-type: none"> <li>smart class</li> <li>group discussion</li> <li>realia</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>Perimeter and area</li> <li>How to calculate perimeter of closed figures</li> <li>Methods to calculate area of regular and irregular shapes</li> </ul>	<ul style="list-style-type: none"> <li>Pen and paper test</li> <li>Quiz</li> </ul>
March	12. Money	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>Convert rupees into paise and vice versa</li> <li>Add and subtract money</li> <li>Multiply and divide money</li> <li>Prepare bills</li> </ul> <p>REVISION AND FINAL EXAMINATION</p>	<ul style="list-style-type: none"> <li>Smart class</li> <li>Realia</li> <li>Group discussion</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>Conversion of money, add and subtract money</li> <li>Prepare bills</li> </ul>	<ul style="list-style-type: none"> <li>Pen and paper test</li> <li>Oral questions</li> <li>quiz</li> </ul>

**Subject: Malayalam**

Month	Topic	Short term outcome	Pedagogical Practice	Long term outcome
June	1.ഈശ്വരപ്രാർത്ഥന	കവിത ഈണത്തിൽ ചൊല്ലുന്നു ,കവിയെ പരിചയപ്പെടുന്നു	പാരായണം , പ്രാർത്ഥനയുടെ ആവശ്യകത അറിയൽ	പ്രാർത്ഥന
	2. മുകളിവാതിൽ	കഥാസ്വരണം , കഥാകൃത്തിനെ അറിയൽ	അക്ഷരസ്പർശത്തോടെ വായിക്കൽ സത്യസന്ധതയുടെ മഹത്വം മനസ്സിലാക്കുന്നു	സത്യസന്ധമായി ജീവിക്കുന്നു
July	3.ആനയും ഓടക്കുഴലും	കവിപരിചയം , കവിതാസ്വരണം	പാരായണം , ദുർവാശി ആപത്തു ശിക്ഷണത്തിന്റെ പ്രാധാന്യം	ദുർവാശിയില്ലാതെ ജീവിക്കുന്നു
	4. നാനാണത്ത് ഭ്രാന്തൻ	നാനാണത്ത് ഭ്രാന്തനെ കുറിച്ച് അറിയുന്നു	വായന , നാടകാവതരണം	പത്തിരുകുലത്തെ കുറിച്ച് അറിയുന്നു
August	5. എന്റെ വിദ്യാലയം	കവിപരിചയം , ആസ്വാദനം ,നിരീക്ഷണ പാടവം	പാരായണം ,കുറിപ്പ്	ഓർമ്മകൾ ,നിരീക്ഷണ പാടവം
September	6. വേഗശ്രുതി	ലേഖകനെ പരിചയപ്പെടുത്തി, എടുത്ത ചാട്ടം വരുത്തുന്ന വിന	വായന , എടുത്ത ചാട്ടവും അമിത വേഗവും ആപത്തു	ജീവിതത്തിൽ അമിതവേഗം വേഗം വരുത്തുന്ന അപകടങ്ങൾ തിരിച്ചറിയുന്നു



October	7. കടമില്ലാക്കടം	പാരായണം , ഈണം കണ്ടെത്തിൽ കവി പരിചയം	പുതിയ പദങ്ങൾ പരിചയപ്പെടുന്നു, പാഠാനുബന്ധ പ്രവർത്തങ്ങൾ	മാതാപിതാക്കളോടുള്ള മക്കളുടെ സ്നേഹം എക്കാലത്തും ഉണ്ടാകേണ്ടതാണെന്ന യാഥാർത്ഥ്യം തിരിച്ചറിയുന്നു
November	8. കുഞ്ചൻനമ്പ്യാർ	കുഞ്ചൻ നമ്പ്യാരെക്കുറിച്ചും തുള്ളലിനെക്കുറിച്ചും അറിയുന്നു	പ്രാചീന കവിത്രയം അറിയുന്നു	തുള്ളൽ ,പ്രാചീന കവിത്രയം ഇവ കുട്ടികൾ അറിയുന്നു ആക്ഷേപ ഹാസ്യം അറിയുന്നു
	9.കുന്നിൻപുറത്തെ സ്കൂൾ	വായന , സ്കൂൾ അനുഭവങ്ങൾ	കുത്ത് പാഠാനുബന്ധ പ്രവർത്തങ്ങൾ	പഴയകാല ഓർമ്മകൾ, സ്കൂൾ അനുഭവങ്ങളുടെ ഓർമ്മ , ആത്മകഥ
December	10. കപ്പ് നഷ്ടപ്പെട്ട കഥ	മഹാത്മാരുടെ അനുഭവ കഥ അറിയുന്നു	കുറിപ്പ് പാഠാനുബന്ധ പ്രവർത്തങ്ങൾ	ജ്ഞാനപീഠ പുരസ്കാരത്തെ കുറിച്ച് അറിയുന്നു , മഹാത്മാരെക്കുറിച്ച് അറിയുന്നു
January	11. പഠിപ്പു തീർന്നാൽ	കവിത വായിച്ച ആശയം ഗ്രഹിച്ച് ഈണത്തിൽ ചൊല്ലി അവതരിപ്പിക്കുന്നു	കവിത സംഭാഷണ രൂപത്തിൽ എഴുതുന്നു	സ്വന്തം ഭാവിയെക്കുറിച്ച് ചിന്തയുള്ളവരാവുക
February	12.ഭൂമിയിലെ മാലാഖ	വായന , കഥാകൃത്തിനെ അറിയൽ	പുതിയ പദങ്ങൾ കണ്ടെത്തിൽ	അമ്മയുടെ മഹത്വം തിരിച്ചറിയുന്നു
March	13.ഉയരുകയർമ്മപതാക	പാരായണം , കവി പരിചയം , പ്രാർത്ഥനയുടെ ആവശ്യകത അറിയൽ	പുതിയ പദങ്ങൾ കണ്ടെത്തിൽ	ദേശസ്നേഹം വളർത്തുന്നു

**Subject: English**

MONTH	TOPIC	LAERNING OBEJCTIVES ( SHORT TERM GOALS)	PEDAGOGICAL PRACTICES	LEARNING OUTCOMES (LONG TERM GOALS)
JUNE	1) Flying south (picture story)	<ul style="list-style-type: none"> <li>To enable them to understand that migration is behavioural evolution amongst birds that are exposed to harsh winters</li> <li>To generate kindness towards animals</li> <li>To make them to understand Collective nouns</li> <li>To learn them to frame words using Suffixes/Prefixes</li> </ul>	<ul style="list-style-type: none"> <li>Writing a Paragraph and making a presentation</li> <li>Smart class</li> </ul>	<ul style="list-style-type: none"> <li>❖ Could them to understand a story based on the theme of the animal kingdom</li> <li>❖ The students learned about the migratory behaviour of the birds</li> <li>❖ Could them to be more kind towards birds and animals</li> <li>❖ Could make them to understand collective nouns</li> </ul>

				❖ Learn them to understand frame words using suffixes and prefixes
JULY	1) The bird on the shore (poem) 2) A day in the jungle (story)  REVISION AND PT1 EXAMINATION	<ul style="list-style-type: none"> <li>To build up compassion and responsibility</li> <li>To make them to understand that the pollution of the sea is a threat to the lives of the species</li> <li>To enable them to identify the role of wildlife sanctuaries in conserving animals</li> <li>To make them to distinguish Possessive adjective and Possessive pronouns</li> </ul>	<ul style="list-style-type: none"> <li>Writing a Notice</li> <li>Giving more exercises</li>   <li>Composing a poem</li> </ul>	<ul style="list-style-type: none"> <li>❖ Could learn about the effects of pollution on marine ecology</li> <li>❖ Could understand about wildlife sanctuaries and their importance</li> <li>❖ Could make them to distinguish possessive adjectives and possessive pronouns</li> <li>❖ Able to write a paragraph</li> </ul>
AUGUST	3) The dolphin and the shark (story)	<ul style="list-style-type: none"> <li>To enable them to understand the variety of animals that live in the seas</li> <li>To make them to learn Continuous tenses: present, past and future</li> </ul>	<ul style="list-style-type: none"> <li>Writing a first person account</li> <li>Making an Alligator mask ( project)</li> <li>Smart class</li> </ul>	<ul style="list-style-type: none"> <li>❖ The student could understand about marine animals</li> <li>❖ Could understand the continuous tenses: present, past and future</li> <li>❖ Could use appropriate grammatical form in comunicztion</li> </ul>

SEPTEMBER	<p>4) The land of counter pane (poem)</p> <p>5) The dragon Rock (story)</p> <p>REVISION FOR HALF YEARLY EXAMINATION</p>	<ul style="list-style-type: none"> <li>To make them to understand about natural disaster such as floods and droughts</li> <li>To enable to understand subject and predicate</li> </ul>	<ul style="list-style-type: none"> <li>Writing a Paragraph using hints</li> <li>Find out the rhyming words and rhyming scheme</li> </ul>	<ul style="list-style-type: none"> <li>❖ Could make them to understand about natural disaster such as floods and droughts</li> <li>❖ Could identify subject/predicate</li> <li>❖ Develop communication skill</li> <li>❖ Able to write paragraph</li> </ul>
OCTOBER	<p>HALF YEARLY EXAMINATION</p> <p>6) The goat adventure ( story)</p>	<ul style="list-style-type: none"> <li>To enable them to understand the benefits of eating fruits</li> <li>To make them to understand Adverbs of degrees</li> </ul>	<ul style="list-style-type: none"> <li>Picture composition</li> <li>Making a scrap book</li> </ul>	<ul style="list-style-type: none"> <li>❖ The students could learn about the benefits of eating fruits</li> <li>❖ Could make them to understand the adverbs of degrees</li> </ul>
NOVEMBER	<p>7) Adventures of Isabel (poem)</p> <p>8) Uncle ken at the wheel (story)</p>	<ul style="list-style-type: none"> <li>To recognize some words are spelt differently in the two different English speaking countries</li> <li>To recognize that it is important to follow road safely rules in order to be safe while travelling</li> </ul>	<ul style="list-style-type: none"> <li>Writing a story based on the given series of pictures</li> </ul>	<ul style="list-style-type: none"> <li>❖ The students learn about the differences in the spelling of certain words in British English and American English</li> <li>❖ Could understand about road safety</li> </ul>

		<ul style="list-style-type: none"> <li>• To enable them to identify Phrasal verbs</li> <li>• To make them to learn conjunctions</li> </ul>	<ul style="list-style-type: none"> <li>• Writing a diary entry</li> <li>• Smart class</li> </ul>	<ul style="list-style-type: none"> <li>❖ Could make them to identify phrasal verbs</li> <li>❖ Could able to use conjunctions</li> </ul>
DECEMBER	9) Siddhartha and the swan (play)	<ul style="list-style-type: none"> <li>• To enable to understand Preposition of movement</li> <li>• To make them to understand that the religion Buddhism originated based on the teachings of Gautama Buddha</li> </ul>	<ul style="list-style-type: none"> <li>• Conducting a role play</li> <li>• Writing a informal letter</li> <li>• Smart class</li> </ul>	<ul style="list-style-type: none"> <li>❖ The student could learn about Gautama Buddha's early life and the birth of Buddhism understood to write an informal letter</li> <li>❖ Could make them to understand prepositions of movement</li> </ul>
JANUARY	REVISION AND PT2 EXAMINATION  10) My Song (poem)	<ul style="list-style-type: none"> <li>• To understand that India was under a foreign rule for 200 years before she gained independence on 15 th Aug 1947</li> <li>• To enable them to identify Personification</li> </ul>	<ul style="list-style-type: none"> <li>• Composing a poem</li> <li>• Smart class</li> </ul>	<ul style="list-style-type: none"> <li>❖ Could enable them to understand about India's struggles for freedom from British rule</li> <li>❖ Identify instances of personification in sentences</li> <li>❖ Could develop reading and writing skills</li> </ul>

FEBRUARY	11) The Valiant Queen (story)	<ul style="list-style-type: none"> <li>• To enable them to understand women have shown exemplary courage in war, through the ages in different parts of the world</li> <li>• To learn them to identify Types of sentences</li> <li>• To enable the children to put proper Punctuation marks</li> </ul>	<ul style="list-style-type: none"> <li>• Writing a paragraph about an Indian freedom fighter</li> <li>• Smart class</li> <li>• Writing a story using hints</li> </ul>	<ul style="list-style-type: none"> <li>❖ The student learned about women warriors in different parts of the world</li> <li>❖ Could them to identify sentences as Declarative, Interrogative, Imperative or Exclamatory</li> <li>❖ Could them to put proper punctuation marks</li> </ul>
MARCH	REVISION AND ANNUAL EXAMINATION			

**Subject: Hindi**

MONTH	TOPIC	SHORT TERM GOALS	PEDAGOGICAL PRACTICES	LONG TERM GOALS (LEARNING OUTCOMES) STUDENTS WILL BE ABLE TO;	ASSESSMENT STRATEGY
JUNE	puna: smarNa, jaagaao AaOr jagaaAao	svaraxar, vyaMjanaaxar AaOr maa~ae^ , Sabdaqaa-, pyaa- yavaacal, ivalaaoma Sabd , bahuvacana, p`Snaao%tr	kivata kao ica~ ko AaQaar pr ivaSlaoYaNa krko pZnaa.	Aalasa sao mau@t haonaa.	paz Baaga sao p`Sna pUCnaa.
JULY	balrbala kl bavidQamaanal, Aha ! fUla iktnao saundr hOM	Sabdaqaa-, pyaa-yavaacal, ivalaaoma Sabd, bahuvacana, p`Snaao%tr	ivaiBanna JddoSyaaoM kao Qyaana maom rKkr khal pZnao ka Avasar.	saUJa-baUJa sao baDI sao baDI mauiSklaaoM kl saamanaa kmao kl xamata p`aPt kmaa.	maaOiKk prlxaa
AUGUST	saibjayaaom kl khal	Sabdaqaa-, pyaa- yavaacal, ivalaaoma	saibjayaaom ka maaoDla idKkr	hrl saibjayaaom	saibjayaaom



		Sabd, bahuvacana, p`Snaao%tr, iksanao-iksasao kha ilaKnaa.	paz pZanaa.	kl gauNa kl jaanakarl p`aPt kmaa.	kl ica~icapkkr ]naka naama ilaKnaa.
SEPTEMBER	raKI ka %yaaohar, panal , punaravat-na	Aqa-,`ka ,ko ,kl`dvaara vaa@ya banaanaa, sava-naama Ca^Tkr ilaKnaa,p`Snaao%tr.	ijandgal sao jaaoDkr ivaYaya kao samaJanao ka Avasar donaa.	ijandgal maom saBal caljaaoM ka sahl Anaupat maom ]pyaaoga kmao kao salKnaa.	manapsaMd %yaaohar ko baaro maom caciaa-kmaa.
OCTOBER	saat rMgaaom ka gaulaaba	iksanao-iksasao kha ilaKnaa, ikyaa ivaSaoYaNa Sabd Ca^Tkr ilaKnaa, bahuvacana, p`Snaao%tr.	balrbala kl Anya khainayaaom kl caciaa- dvaara Ca~aoM ka Qyaana paz kl Aaor lao jaanaa.	naOitk maUlyaaom ko AaQaar pr jalvana ibatanaa.	khanl ka naaTk \$p maom p`stutlkrNa.
NOVEMBER	kYNa saudamaa,baairSa kha^ sao Aa[-	Sabdaqa-,pyaa-yavaacal, ivalaaoma Sabd, bahuvacana, p`Snaao%tr,iksanao-iksasa okha ilaKnaa, saM&a ko naama Ca^Tkr ilaKnaa.	kYNa saudamaa kl baalya kala ka vaNa-na krto hue paz kl Aaor lao jaanaa. prlxNa ko dvaara baairSa barsanaa samaJaanaa	vaO&ainak dRiTkaona ]%pnna kmaa.	bahuivaklpl p`Sna
DECEMBER	gaa^Qaljal ko baMdr	Sabdaqa-,pyaa-	ga^aQaljal ko	ga^aQaljal ko	pd p`Sna

	tlNa	yavaacal, ivalaaoma Sabd, bahuvacana, p`Snaao%tr.	Anamaaaola t%vaaom dvaara paz Baaga kl jaanakarl donaa.	Anamaaaola t%vaaom kao jalvana maom Apnaanaa.	
JANUARY	[-maanadarl ka [naama	Sabdaqa-,pyaa-yavaacal, ivalaaoma Sabd, bahuvacana, p`Snaao%tr.	naOitk kqaaAaoM kl caciaa- krko paz kl Aaor lao jaanaa.	[-maanadarl ka mah%va samaJakr jalnaa.	saMyau@ta xar vaalao Sabd ZU^Zkr ilaKnaa.
FEBRUARY	sardar pTola,baZo calaao	Sabdaqa-,pyaa-yavaacal, ivalaaoma Sabd, p`Snaao%tr, imalaana kmaa,samaanaaqa-k Sabd ilaKnaa.	svatM~saonaaainayaaom ka ica~ idKakr caciaa- kmaa.	ina:svaaqa-Baavanaa sao jalnaa.	svatM~ta saonaaainay aaoM ka ica~icapkanaa.
MARCH	punaravat-na				



**Annual Pedagogical Plan 2020-2021**

**Class V**

**Subject: Science**

MONTH	CHAPTER	SHORT TERM LEARNING OUTCOMES	PEDAGOGICAL STRATEGIES	ASSESSMENT STRATEGIES	LONG TERM LEARNING OUTCOMES
JUNE	>Plant Reproduction	.Recognise,draw& name the parts of a seed .Define germination & list its conditions .List & explain the other methods of plant reproduction .Explain the methods of seed dispersal .Describe the different kinds of crops & farming practices	.Smart class .Interactive tutoring .Hands on learning .Individual activities  .Observation .Discussion	.OTA .Quiz	Students will be able to .Classify seasonal crops .Exhibit value like concern for the environment
	>Animal Reproduction	.Describe the different body coverings of animals .Name the different breathing organs found in the animal world .Describe the diff ways in which move .Explain how & why animals migrate. .Describe the feeding habits of Animals		.Puzzle solving .OTA	.Exhibit values like Empathy,Love for animals
JULY	>Food, Health &Hygeine	.Describe a balanced diet & explain why it is necessary .Describe how food can be	.Observation .Discussion .Individual activities	.Pasting pictures .OTA	.Make efforts to increase Interpersonal relationships

<b>AUGUST</b>	>Bones & Muscles	<p>cooked</p> <p>.List the ways in which communicable diseases can be spread</p> <p>List the deficiency diseases &amp; their causes</p> <p>.Explain the importance of exercise &amp; rest</p> <p>.Name the different organ systems,their functions</p> <p>.Explain the importance of skeletal system</p> <p>.Describe the different types of joints</p> <p>.Talk about the different kinds of muscles &amp; explain the functions</p>	<p>.Smart class</p> <p>.Interactive tutoring</p> <p>.Structure drawing</p> <p>.Demonstration</p> <p>.Smart class</p>	<p>.Quiz</p> <p>.Work sheet</p> <p>.Test paper</p>	<p>&amp;effective communication in daily life</p> <p>.Exhibit values like responsibility.care for others</p> <p>.understands the importance of parts of body</p> <p>.Inculcate values like Selfawareness, Helpfulness,Courage</p>
	>Nervous System	<p>.Name the different parts of nervous system</p> <p>.Describe the brain ,spinal cord &amp; its functions</p> <p>.Describe the different kinds of nerves</p> <p>.Explain how messages travel through nervous system</p> <p>.Describe reflex actions.</p> <p>.Describe the functions of the sense organs</p>	<p>.Structure drawing</p> <p>.Demonstration.</p> <p>.Smart class</p>	<p>.Puzzle solving</p> <p>.OTA</p> <p>.Test paper</p>	<p>.Able how to Manage emotions</p>
<b>SEPTEMBER</b>	>Safety & First Aid	<p>.Explain the causes of fire accidents &amp; how to put out fires</p> <p>.Describe the first aid to be given for burns,cuts, wounds,fractures,sprains, animal bites &amp; nose bleeds</p>	<p>.Demonstration</p> <p>.Individual activity</p> <p>.Smart class</p> <p>.Hands on learning</p>	<p>.Model making (First-Aid) kit</p> <p>.Quiz</p>	<p>.Apply learning concepts in day – to day life</p> <p>.Exhibit values like decision making,Support,Care,</p>

<b>OCTOBER</b>	>Rocks & Minerals	<ul style="list-style-type: none"> <li>.Describe different kinds of rocks</li> <li>.Explain how rocks are formed</li> <li>.List some characteristics of minerals</li> <li>.Describe the uses of minerals</li> </ul>	<ul style="list-style-type: none"> <li>.Demonstration</li> <li>.Smart class</li> </ul>	<ul style="list-style-type: none"> <li>.Pasting pictures</li> <li>.OTA</li> <li>.Paper –pen test</li> </ul>	<p>Helpfulness</p> <p>.Acquire ability of critical thinking, care for environment decision making</p>
<b>NOVEMBER</b>	>Soil & Importance	<ul style="list-style-type: none"> <li>.Explain how soil is formed</li> <li>.List the components &amp; layers of soil</li> <li>.Discuss soil erosion</li> <li>.Describe how soil can be conserved</li> </ul>	<ul style="list-style-type: none"> <li>.Debate</li> <li>.Smart class</li> </ul>	<ul style="list-style-type: none"> <li>.Assignment</li> <li>.OTA</li> </ul>	<p>.Able to solve environmental problems.</p> <p>.Able to conduct awareness programme (peer programme)</p>
	>Air & Water	<ul style="list-style-type: none"> <li>.Identify &amp; describe the layers of the atmosphere.</li> <li>.Explain the properties of air.</li> <li>.Discuss methods to purify water</li> </ul>	<ul style="list-style-type: none"> <li>.Hands on learning</li> <li>.Demonstration</li> <li>.Smart class</li> </ul>	<ul style="list-style-type: none"> <li>.Test paper</li> <li>.Puzzle</li> </ul>	<p>.Exhibit the values like Care &amp; concern .</p>
<b>DECEMBER</b>	>The Environment	<ul style="list-style-type: none"> <li>.Define ecology</li> <li>.List the effects of air &amp; water pollution</li> <li>. Explain how the use of pesticides leads of pollution</li> <li>.Describe how we must take care of natural resources</li> </ul>		<ul style="list-style-type: none"> <li>.Poster making (nature conservation)</li> <li>.OTA</li> </ul>	<p>.Able to increase interpersonal relationships</p>
	>Nature Links	<ul style="list-style-type: none"> <li>.Define the word 'biosphere' &amp; list its biotic &amp; abiotic components</li> <li>.Explain how living things depend on non-living things &amp; on each other</li> <li>.Trace the flow of food &amp; energy</li> </ul>	<ul style="list-style-type: none"> <li>.Observation</li> <li>.Discussion</li> <li>.Narrative learning</li> <li>.Smart class</li> </ul>	<ul style="list-style-type: none"> <li>.Test paper</li> </ul>	<p>.Exhibit the values like Courage, Consideration for others</p>

<b>JANUARY</b>	>Natural disasters	in food chains & food webs .Explain how natural disasters occur .Describe their effects .List out steps to be taken to minimize damage during natural disasters .Explain how to help people affected by a natural disaster	.Collection of data .Debate .Smart class	.Chart making (natural disasters) .Quiz	.Able how to control stress in incidents happening in everyday life .Also inculcate values like decision making, Empathy Sharing, Team work, Kindness
	>The Moon & Eclipses	.Describe the moon and the conditions on the moon .Describe the phases of the moon .Explain how eclipses occur.	.Demonstration .Smart class	.Model making (phases of moon) .Test paper	.Get scientific outlook on environmental phenomenas
<b>FEBRUARY</b>	>Simple Machines	.Explain what machines are & how they make our work easier .Name & identify diff types of simple machines & their uses .Classify levers into three classes	.Demonstration .Smart class	.Quiz .Crossword puzzle	.Able to acquire critical thinking. .Also exhibit values like presence of mind
	>Measurement : Speed & Density	.Define speed .Calculate the speed of things .Explain what density is .Explain why some things float on water .Predict when a thing will float on water	.Hands on learning .Tabulation .Demonstration .Smart class	.Test paper	.Able to correlate scientific terms with every day life
<b>MARCH</b>	>Revision >Annual Exam				

**Subject: Social Science**

MONTH	TOPICS	LEARNING OBJECTIVE	PEDAGOGICAL PRACTICES	LEARNING OUTCOMES
JUNE	1.Globes and maps	<p>To identify the shape of the earth</p> <p>To know the globes and maps</p> <p>To understand how to read the map</p>	<p>Story telling</p> <p>map work.</p> <p>group discussion.</p> <p>Smart class</p>	<p>Realising the shapes of earth</p> <p>Differentiating globes and maps</p> <p>Able to read map</p>
	2.Latitude and longitude	<p>To know about latitude and longitude</p> <p>To understand how to locate a place on maps</p>	<p>Discussion</p> <p>assignment.</p> <p>Map</p> <p>Smart class</p>	<p>Acquiring spacial skill</p> <p>Improving drawing skill</p>

JULY	3 . Rotation and revolution	To distinguish rotation and revolution and its effects	*discussion.  role play Experimental activity Smart class	Differentiating rotation and revolution  Able to explain how day and night and seasons occur
	4.Weather and climate	*to understand weather and climate, factors that affecting the climate of a place and heat zones of the earth	map. discussion. project. Smart classes	Develop the observation skill
AUGUST	5.The Democratic Republic of Congo	*To understand about equatorial climate through the study of Congo	map. group discussion. Smart class	Identifying equatorial climate
SEPTEMBER	6.The deserts	To know about desert climate ,vegetation and life of people	Map Panel discussion Smart class	Understanding the features of desert region



OCTOBER	<p>7.The grasslands</p> <p>8.Environmental pollution</p>	<p>To know about temperate grasslands and tropical grasslands and its climate, vegetation and wild life.</p> <p>To understand types of pollution and steps to control pollution</p>	<p>Explanation</p> <p>Map work</p> <p>Role play</p> <p>Group discussion</p> <p>Smart class</p>	<p>Able to locate major grasslands of the world.</p> <p>Differentiating tropical grassland and temperate grassland.</p> <p>Identifying the causes of pollution and able to control pollution.</p>
NOVEMBER	<p>9. Conservation of resources</p> <p>10. Natural disasters</p>	<p>To understand about natural resources and how to conserve resources.</p> <p>To know about natural disasters and precautions taken to reduce its effects.</p>	<p>.survey.</p> <p>project.</p> <p>power point presentation.</p> <p>Assignment</p> <p>Role play</p> <p>Smart class</p>	<p>able to manage their household wastes.</p> <p>Able to take precautions to reduce the effects of natural disasters.</p>

DECEMBER	11.Communication	To understand the importance of communication and the means of communication.	role play group discussion smart class	Acquiring communicative skill
JANUARY	12. Medicine  13.Great Indians	To develop scientific skills of the students  To know about some great Indians	Group discussion  Role play Smart class	Acquiring experimental skill  Developing observation skill  Developing leadership quality
FEBRUARY	14.Coming of the British  15 .Towards freedom	To develop the awareness of British period	Explaining Smart class	Develop anti colonial feeling
MARCH	16 .The Indian govt  17.TheUnited Nations	To understand about our constitution and govt  To maintain universal peace	Mock election Smart class  Discussion	Develop leadership quality  Inculcating patriotic feeling  Awareness of universal peace

**Subject: Maths**

MONTH	TOPIC	LEARNING OBJECTIVE	PEDAGOGICAL STRATEGY	LEARNING OUTCOME	ASSESSMENT STRATEGY
JUNE	1.More on large numbers	<p>Students will be able to understand</p> <ul style="list-style-type: none"> <li>• Large numbers</li> <li>• Indian and international system of numeration.</li> <li>• Compare large numbers.</li> <li>• Roman numerals</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Discussion</li> <li>• Project</li> </ul>	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Read and write large numbers</li> <li>• Read and write numbers according to Indian and International system</li> <li>• Write numbers in Roman system</li> </ul>	<ul style="list-style-type: none"> <li>• Class edge activity</li> <li>• Pen paper test</li> <li>• Quiz</li> </ul>
	14.Patterns and Symmetry	<p>Students will be able to understand</p> <ul style="list-style-type: none"> <li>• Patterns in numbers.</li> <li>• Symmetric figures and their lines of symmetry.</li> <li>• Rotate figures to make quarter turn, half turn, a three-quarter turn, and a full turn.</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Discussion</li> </ul>	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Identify Patterns in numbers.</li> <li>• Identify Symmetric figures and their lines of symmetry.</li> <li>• Complete a symmetric figure given a line of symmetry.</li> </ul>	<ul style="list-style-type: none"> <li>• Class edge activity</li> <li>• Pen paper test</li> <li>• Quiz</li> </ul>

JULY	2.Operations on large numbers.	<p>Students will be able to understand</p> <ul style="list-style-type: none"> <li>Add and subtract large numbers.</li> <li>Multiply and divide large numbers.</li> <li>Properties of all operations.</li> <li>Average of given numbers.</li> </ul>	<ul style="list-style-type: none"> <li>Smart class</li> <li>discussion</li> </ul>	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>Add and subtract large numbers.</li> <li>Multiply and divide large numbers.</li> <li>Solve word problems based on four operations.</li> </ul> <p>Find average of given numbers.</p>	<ul style="list-style-type: none"> <li>Class edge activity</li> <li>Pen paper test</li> <li>Quiz</li> </ul>
AUGUST	3.Factors and multiples.	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>understand tests of divisibility.</li> <li>Find factors and multiples of given numbers</li> <li>Find HCF and LCM by prime factorization method.</li> </ul>	<ul style="list-style-type: none"> <li>Smart class</li> <li>Discussion</li> <li>Demonstration</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>Divisibility of a number by a given number.</li> <li>factors and multiples of given numbers</li> <li>HCF and LCM by prime factorization method.</li> </ul>	<ul style="list-style-type: none"> <li>Pen paper test</li> <li>Class edge activity</li> <li>Quiz</li> </ul>
	13.Data handling	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>Understand tally marks.</li> <li>Understand bar graph and pie graph</li> </ul> <p>Understand line graph</p>	<ul style="list-style-type: none"> <li>Smart class</li> <li>Discussion</li> <li>Demonstration.</li> </ul>	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>Read and interpret data from a bar graph ,pie graph and line graph.</li> <li>Represent and interpret data using tally marks.</li> </ul>	<ul style="list-style-type: none"> <li>Pen paper test</li> <li>Class edge activity</li> <li>Oral questions</li> </ul>
SEPTEMBER	4.Fractions.	<p>Students will be able to understand</p> <ul style="list-style-type: none"> <li>types of fractions.</li> <li>equivalent fractions.</li> <li>Addition and subtraction of fractions.</li> <li>Multiplication and division of fractions.</li> </ul>	<ul style="list-style-type: none"> <li>Smart class</li> <li>Discussion</li> <li>Demonstration</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>types of fractions.</li> <li>Add and subtract fractions</li> <li>Solve problems related to real life.</li> </ul>	<ul style="list-style-type: none"> <li>Pen paper test</li> <li>Class edge activity</li> <li>quiz</li> </ul>

OCTOBER	6.Geometry.	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• understand concept of angles.</li> <li>• Different types of angles.</li> <li>• Measure and construct angles using protractor.</li> <li>• Define parallel and perpendicular lines.</li> </ul> <p><b>REVISION</b> <b>HALF YEARLY EXAMINATION</b></p>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Discussion</li> <li>• Demonstration</li> </ul>	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• understand concept of angles.</li> <li>• Different types of angles.</li> <li>• Measure and construct angles using protractor.</li> <li>• Define parallel and perpendicular lines.</li> </ul>	<ul style="list-style-type: none"> <li>• Pen paper test</li> <li>• Class edge activity</li> <li>• quiz</li> </ul>
NOVEMBER	5.Decimals	<p>Students will be able to understand</p> <ul style="list-style-type: none"> <li>• decimals</li> <li>• conversion of decimals into fractions and vice versa.</li> <li>• Compare and order decimals.</li> <li>• Add and subtract decimals.</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Discussion</li> <li>• Demonstration</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• decimals</li> <li>• conversion of decimals into fractions and vice versa.</li> <li>• Compare and order decimals.</li> <li>• Add and subtract decimals</li> </ul>	<ul style="list-style-type: none"> <li>• Pen paper test</li> <li>• Class edge activity</li> <li>• Quiz</li> </ul>
	12. Scales and Directions	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Draw the reduced and magnified images of actual objects.</li> <li>• Identify the directions- north,south,east and west.</li> <li>• Find the angles (in degrees) between two directions.</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Pose questions</li> <li>• Interactive lecture</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• reduced and magnified images of actual objects.</li> <li>• Identify the directions- north,south,east and west.</li> <li>• Find the angles (in degrees) between two directions</li> </ul>	<ul style="list-style-type: none"> <li>• Pen paper test</li> <li>• Class edge activity.</li> <li>• Oral questions.</li> </ul>

DECEMBER	7.Measurement	<p>Students will be able to able</p> <ul style="list-style-type: none"> <li>• Convert bigger units of measurements to smaller units and vice versa.</li> <li>• Add, subtract multiply and divide the unit of length ,weight and capacity.</li> <li>• Solve word problems on length, weight and capacity.</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Pose questions</li> <li>• Interactive lecture</li> </ul>	<p>Students will be able to able</p> <ul style="list-style-type: none"> <li>• Convert unit of measurements.</li> <li>• Solve problems based on measurements</li> </ul>	<ul style="list-style-type: none"> <li>• Pen paper test</li> <li>• Class edge activity.</li> <li>• Oral questions.</li> <li>•</li> </ul>
JANUARY	8.Perimeter and Area	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Find the perimeter of squares and rectangles.</li> <li>• Find the area of squares and rectangles.</li> <li>• Find the area of triangles.</li> <li>• Find the area of irregular shapes.</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Pose questions</li> <li>• Interactive lecture</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• Perimeter of polygons.</li> <li>• Area of polygons</li> </ul>	<ul style="list-style-type: none"> <li>• Pen paper test</li> <li>• Class edge activity.</li> <li>• Oral questions.</li> </ul>
FEBRUARY	9.Volume and Nets of Solids	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Find the volume of cubes and cuboids.</li> <li>• Find the volume of solid figures made with unit cubes.</li> <li>• Draw nets of cubes, cuboids, cones and cylinders.</li> <li>• Draw cubes and cuboids on isometric</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Pose questions</li> <li>• Interactive questions.</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• Volume of cubes and cuboids.</li> <li>• Nets of solids.</li> </ul>	<ul style="list-style-type: none"> <li>• Pen paper test</li> <li>• Class edge activity.</li> <li>• Oral questions.</li> </ul>

	10. Time and Temperature	<p>dot grids.</p> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Convert days into hours and vice versa.</li> <li>• Convert hours into minutes and vice versa.</li> <li>• Convert minutes into second and vice versa.</li> <li>• Find time duration.</li> <li>• Learn about temperature.</li> <li>• Convert temperature from Celsius scale to Fahrenheit scale and vice versa.</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Pose questions</li> <li>• Interactive questions</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• Conversion of time</li> <li>• Temperature</li> <li>• Conversion of temperature.</li> </ul>	<ul style="list-style-type: none"> <li>• Pen paper test</li> <li>• Class edge activity.</li> <li>• Oral questions.</li> </ul>
MARCH	11. Life Mathematics	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Define the terms profit,loss, cost price and selling price.</li> <li>• Find profit and loss.</li> <li>• Apply unitary method in everyday calculations.</li> </ul> <p>REVISION ANNUAL EXAMINATIONS</p>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Pose questions</li> <li>• Interactive questions</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• The terms profit ,loss</li> <li>• To find profit and loss in daily life.</li> </ul>	<ul style="list-style-type: none"> <li>• Pen paper test</li> <li>• Class edge activity.</li> <li>• Oral questions.</li> </ul>



**Subject: Malayalam**

# ANNUAL PEDAGOGICAL PLAN - 2017-18

Month	Topic	Short term outcome	Pedagogical practice	Longterm outcome
June	1 ഏറെൻ്റെ ഗുരുനാഥൻ  2രാജാവിനെ .....ബുദ്ധി	ഇറണത്തിൽ ചൊല്ലുന്നതിന്, കുറിനായാൻ അതിനെ മഹത്വം  കുമാവായന, ഗുണപാഠം അറിയുന്നു	അർത്ഥം കണ്ടെത്തി കൊണ്ട് കവിതാപാഠമായണം  ആശയം വിശദമാക്കുന്നു ദൃശ്യ ആവിഷ്കാരം	കൃഷിയുടെയും അധ്വാനത്തിന്റെയും മഹത്വം അറിയുന്നു  അവസരങ്ങൾ ഉപയോഗിക്കുന്നു
July	3 അഹങ്കാരിയായകാക്ക 4.പൂക്കൊലം	ഇറണം കണ്ടെത്തി അവതരിപ്പിക്കുന്നു കവിതാപാഠമായണം, കവിപരിചയം	ഇറണത്തിൽ ചൊല്ലുന്നു. പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	അഭിരുചിയായ ആശയ വിശ്വാസംആപത്ത് നിരീക്ഷണപാടവം വളർത്തുന്നു
Aug	5.ഒരുപ്രതത്തി-ന്റെവിലാപം	വായന,മായു-മങ്ങളെഅറിയൽ	പാഠാനുബന്ധപ്രവർത്തനങ്ങൾ,ശേഖരണം	പ്രതവായനശീലമാക്കുന്നു
Sep	6.ജൂലിയ-മരങ്ങൾക്കുവേണ്ടിഒരു കുട്ടി	വായന,ജൂലിയയെ അറിയുന്നു	പാഠാനുബന്ധപ്രവർത്തനങ്ങൾ,ശേഖരണം, ഉപന്യാസ രചന	മരംഒരുവരമാണെന്ന് അറിയുന്നു
Oct	7.പുത്തമാവിനെപ്പറ്റി	പാഠായണം,കവിപരിചയം	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	പ്രകൃതിഭംഗി ആസ്വദിക്കുന്നു
Nov	8.ലിയനാർഡോഡാവിഞ്ചിപറിക്കുന്നപാഠങ്ങൾ	വായന,ചിത്രകാരനെ അറിയൽ	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	മഹാമാരുടെ ജീവിതം മനസ്സിലാക്കുന്നു
	9.പൂച്ചയും ഏലിയും	കവിപരിചയം കവിതയുടെആശയം മനസ്സിലാക്കുന്നു	കവിതാപാഠമായണം പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	ആപത്തുകൾതിരിച്ചറിഞ്ഞ് ജീവിക്കുന്നതിന്
Dec	10.ശൈഖ്ബുഹ്-യൂട്ടീൻ അബ്ദുൾഖാദർ	വായന,ഗുണപാഠം വിശകലനംചെയ്യുന്നു	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	സത്യസന്ധമായി ജീവിക്കാൻ കഠിയുന്നു
Jan	11 കലാംഎന്ന രാഷ്ട്രപതി	വായന,കലാമിനെ അറിയൽ	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	മഹാമാരുടെജീവിതം മനസ്സിലാക്കുന്നു
Feb	12.ഞങ്ങളുടെ മൂത്തശ്ശി	കവിതാപാഠമായണം	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	പഴയ നിലനിർത്തുന്നതിന്
Mar	13.നടപ്പിന്റെചരിത്രവുംശാസ്ത്രവും	ലേഖനവായന	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	വ്യായാമശീലം ഉള്ളവരാകുന്നു

**Subject: English**

MONTH	TOPIC	SHORT TERM GOALS	PEDAGOGICAL PRACTICES	LONG TERM GOALS/ PEDAGOGICAL OUTCOME
JUNE	<ul style="list-style-type: none"> <li>1. The Hot Rice Plate (Fiction)</li> <li>2. Alexander The Great (Poem)</li> </ul>	<ul style="list-style-type: none"> <li>To enable the children to follow words of wisdom</li> <li>To learn and understand types of nouns and compound words.</li> <li>To identify Rhyming words</li> </ul>	<ul style="list-style-type: none"> <li>Identifying different types of nouns from a given list.</li> <li>Paragraph Writing</li> <li>Reciting the poem</li> </ul>	<ul style="list-style-type: none"> <li>Enabled the children to follow words of wisdom</li> <li>Learned to identify nouns</li> <li>Learnt to recite a poem</li> </ul>
JULY	<ul style="list-style-type: none"> <li>3. The One Straw Millionaire (Folk Tale)</li> <li>Revision &amp; PT 1</li> </ul>	<ul style="list-style-type: none"> <li>To enable the children to follow advice</li> <li>To differentiate emphatic pronoun and reflexive pronoun</li> </ul>	<ul style="list-style-type: none"> <li>Writing a different ending for a given story</li> <li>Make a small dictionary</li> </ul>	<ul style="list-style-type: none"> <li>Learned to follow advice</li> <li>Could feel and appreciate things great and small.</li> </ul>

AUGUST	<ul style="list-style-type: none"> <li>4. Eating Healthy Food with Gundu Ram (Fiction)</li> <li>5. Food Pyramid (poem)</li> </ul>	<ul style="list-style-type: none"> <li>To make the children understand the importance of having a healthy food habits</li> <li>Frame words adding prefixes and suffixes</li> <li>Differentiate adjectives of quantity and quality</li> <li>Learn to use to-infinities</li> </ul>	<ul style="list-style-type: none"> <li>Filling in the blanks with suitable prefixes/suffixes</li> <li>Choosing appropriate adjectives of quantity and quality from the box</li> <li>Filling in the blanks with suitable form of verbs</li> <li>Reciting a poem</li> </ul>	<ul style="list-style-type: none"> <li>Realise the importance of having a healthy food habit</li> <li>Learn to frame words with prefixes and suffixes</li> <li>Could identify adjectives of quantity and quality.</li> <li>Could use to - infinities in sentences</li> </ul>
SEPTEMBER	<ul style="list-style-type: none"> <li>6. A Real Feast (Fiction)</li> </ul> <p>Revision for Half Yearly Examination</p>	<ul style="list-style-type: none"> <li>To make the children aware of the importance of a healthy food habit.</li> <li>To learn phrasal verbs, simple and continuous tenses (present, past and future)</li> </ul>	<ul style="list-style-type: none"> <li>Conducting a debate:homely food vs fast food.</li> <li>Choosing suitable form of verbs from given brackets</li> </ul>	<ul style="list-style-type: none"> <li>Could understand the importance of having healthy food habit.</li> <li>Could understand phrasal verbs</li> <li>Could write sentences in simple and continuous</li> </ul>

				tenses
OCTOBER	Half Yearly Examination • 7. The Unbreakable Mary Kom (prose)	• To inculcate values of confidence and sportsmanship • To make the children understand types of adverbs • To enable the children to put proper punctuationmarks	• Identify different types of adverbs • Writing a message • Giving exercises to put proper punctuationmarks	• Could inculcate values of confidence and sportsmanship • Could understand types of adverbs • Could put proper punctuation marks in sentences wherever necessary.
NOVEMBER	• 8. Choose Your Sports(poem) • 9. Unusual Indian Sports (Prose)	• To Create an awareness of different Games • To appreciate apoem  • To make children aware of different outdoorsports • To identify different types of sentences :imperative, interrogative, exclamatory and	• Reciting the poem • Circling any ten words related to sports and games from the word grid  • Make the children talk on their favourite sports • Notice Writing • Identifying different types of sentences • Filling in blanks	• Could make an awareness of different Games • Could appreciate and recite the poem. • Could identify different outdoorsports • Could distinguish different types of sentences :imperative, interrogative, exclamatory and

		assertive • To enable to learn definite and indefinite articles (the, a and an)	choosing suitable articles	assertive • Could use definite and indefinite articles (the, a and an) in sentences wherever necessary
DECEMBER	• 10. Brave Dogs(Prose)	• To inculcate values of bravery and wit • To make the children learn active and passive voices • To make the children learn collocations and linkers.	• Framing sentences in active and passive voices, changing sentences from active to passive • Writing a diary entry • Choosing suitable linkers from boxes	• Could inculcate values of bravery and wit • Could learn to use active and passive voices • Could use collocations and linkers
JANUARY	• 11. The Marrog (poem)  REVISION AND PT 2	• To enhance the imagination of children • To find out rhyming words	• Finding out rhyming words • Reciting the poem	• Could enhance the imagination of children • Could find out rhyming words

**Subject: Hindi**

**Annual Pedagogical Plan 2020-2021**

**Class VI**

**Subject: Science**

Month	chapter	Learning Outcomes ( short term)	Learning outcomes (long term)	Pedagogical strategies	Assessment Strategy
June	1. Food where does it come from	Students will able to <ul style="list-style-type: none"> <li>. understand different types of food and their sources, plant parts and animal products as food</li> </ul>	Students will be able to realise <ul style="list-style-type: none"> <li>. ingredients of different food items</li> <li>. plants and animal sources of food</li> <li>. the value of food containing nutrients</li> </ul>	<ul style="list-style-type: none"> <li>. discussion</li> <li>. demonstration</li> <li>. pose question</li> <li>. smart class</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral questions</li> <li>➤ Pen - paper test</li> </ul>
	2. Components of food	. identify the ingredients present in different food items and their test, balanced diet	.Recognise the presence of nutrients in different food items <ul style="list-style-type: none"> <li>. Identify the different types of test ( protein and fats in various food items)</li> </ul>	<ul style="list-style-type: none"> <li>.interactive lecturing</li> <li>.group discussion</li> <li>.food test</li> <li>.smart class</li> </ul>	<ul style="list-style-type: none"> <li>. Oral questions</li> <li>. Pen – paper test</li> <li>. quiz</li> </ul>
July	3. Fibre to Fabric	. understand fibre and its varieties , spinning cotton yarn ,history of clothing materials	<ul style="list-style-type: none"> <li>. differentiates materials such as fibre and yarn</li> <li>. Compares the characteristics of different plant fibres and their use</li> <li>. Identify the method of cloth making and their importance in different seasons</li> </ul>	<ul style="list-style-type: none"> <li>. Pose questions</li> <li>. Interactive lectures</li> <li>. smart class</li> <li>. project ( weaving)</li> </ul>	<ul style="list-style-type: none"> <li>. Oral questions</li> <li>. Summarising</li> <li>. Pen – paper test</li> </ul>
	4. Sorting materials in to groups	. To know different types of objects in our surroundings , properties of material	<ul style="list-style-type: none"> <li>. classifies the materials on the basis of their physical properties</li> <li>. Identifies materials as soluble and insoluble (PT1 EXAM)</li> </ul>	<ul style="list-style-type: none"> <li>. experimental activities</li> <li>. smart class</li> <li>. Interactive lecture</li> </ul>	<ul style="list-style-type: none"> <li>. memory matrix</li> <li>. class edge activities</li> </ul>



August	5. Separation of substances	<ul style="list-style-type: none"> <li>. understand methods of separation – hand picking ,winnowing ,threshing ,sieving ,sedimentation, decantation , filtration etc</li> </ul>	<ul style="list-style-type: none"> <li>. Identifies the different methods of separation according to their states and their properties</li> <li>. Appreciates the use of these methods in daily life such as filtration etc</li> </ul>	<ul style="list-style-type: none"> <li>. visual clues</li> <li>. smart class</li> <li>. experimental activities</li> <li>. Realia</li> </ul>	<ul style="list-style-type: none"> <li>. oral questions</li> <li>. pen and paper test</li> </ul>
	10 .Motion and Measurement of Distances	<ul style="list-style-type: none"> <li>. to know measurement</li> <li>. measuring the length of curved line etc</li> <li>. understand different types of motion</li> </ul>	<ul style="list-style-type: none"> <li>. Appreciates measuring the length using body parts , string , metre scale etc</li> <li>. The ancient methods of measurement</li> </ul>	<ul style="list-style-type: none"> <li>.class room activities related to measure different objects by students</li> <li>. smart class</li> <li>. Interactive Lecturing</li> </ul>	<ul style="list-style-type: none"> <li>. Oral questions</li> <li>. pen – paper test</li> </ul>
September	11 . Light ,Shadows and Reflection	<ul style="list-style-type: none"> <li>. understand transparent ,opaque ,and translucent objects</li> <li>.shadow formation ,pinhole camera ,mirror and reflection</li> </ul>	<ul style="list-style-type: none"> <li>. Recognizes objects as transparent ,translucent , and opaque .</li> <li>. Identifies the type of objects which cast shadows or not</li> <li>. analysing different types of mirrors and their importance and uses</li> </ul>	<ul style="list-style-type: none"> <li>. pose questions</li> <li>. experimental works</li> <li>. smart class</li> <li>. shadow formation</li> </ul>	<ul style="list-style-type: none"> <li>. memory matrix</li> <li>. pen – paper test</li> </ul>
	16 .Garbage in and Garbage out	<ul style="list-style-type: none"> <li>. to know how to deal with garbage ,vermicomposting</li> </ul>	<ul style="list-style-type: none"> <li>. Distinguishes the bio and non bio degradable wastes</li> <li>. understanding recycling processes</li> </ul>	<ul style="list-style-type: none"> <li>. Interactive Lecturing</li> <li>. smart class</li> </ul>	<ul style="list-style-type: none"> <li>. oral question</li> <li>. pen – paper test</li> </ul>
October	9 .The living organisms and their surroundings	<ul style="list-style-type: none"> <li>. to understand habit and adaptation of different animals.</li> <li>.living organism and excretion method</li> </ul>	<ul style="list-style-type: none"> <li>.classify things as biotic and abiotic things</li> <li>. Distinguishes the different habitat of plants and animals (HALF YEARLY EXAM)</li> </ul>	<ul style="list-style-type: none"> <li>. smart class</li> <li>. quiz</li> <li>.Interactive lecturing</li> <li>. pose question</li> </ul>	<ul style="list-style-type: none"> <li>. oral question</li> <li>. pen paper test</li> </ul>
November	6 . Changes Around us	<ul style="list-style-type: none"> <li>. to know the differents of chemical and physical changes</li> </ul>	<ul style="list-style-type: none"> <li>. differentiate between physical and chemical change such as reversible and irreversible changes</li> </ul>	<ul style="list-style-type: none"> <li>. Experimental activities</li> <li>. Discussion</li> <li>. smart class</li> <li>. Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>. Summarising</li> <li>. oral questions</li> </ul>

	7 .Getting to know plants	<ul style="list-style-type: none"> <li>. to understand about herbs , shrubs ,and trees</li> </ul>	<ul style="list-style-type: none"> <li>. Identifies the different parts of a plants</li> <li>. understanding herbs, shrubs ,trees, climbers etc</li> </ul>	<ul style="list-style-type: none"> <li>. Demonstration</li> <li>. Realia</li> <li>. pose question</li> <li>. smart class</li> </ul>	<ul style="list-style-type: none"> <li>. pen paper test</li> </ul>
December	12 . Electricity and circuits	<ul style="list-style-type: none"> <li>. analyse electric cell ,circuits ,conductors and insulators</li> <li>. switch</li> </ul>	<ul style="list-style-type: none"> <li>. understanding to make circuits by using cell , switch , wire , and bulb</li> <li>. Identifies the objects as conductors and insulators</li> </ul>	<ul style="list-style-type: none"> <li>. Interactive lecturing</li> <li>. smart class</li> <li>. Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>. Memory matrix</li> <li>. pen and paper test</li> </ul>
	13 . Fun with magnets	<ul style="list-style-type: none"> <li>. understand magnetic properties</li> <li>. poles of magnet</li> <li>. finding direction by using magnets</li> </ul>	<ul style="list-style-type: none"> <li>. Explores the behaviour of magnets such as attraction and repulsion of magnets</li> <li>. understanding the application of magnetic properties in our day today life</li> </ul>	<ul style="list-style-type: none"> <li>. Interactive lecturing</li> <li>. smart class</li> <li>. demonstration</li> </ul>	<ul style="list-style-type: none"> <li>. oral question</li> <li>. pen and paper test</li> </ul>
January	14 . Water	<ul style="list-style-type: none"> <li>. understand about importance of water</li> <li>.water conservation</li> <li>. rainwater harvesting</li> </ul>	(PT 2 EXAM) <ul style="list-style-type: none"> <li>. Identifies the natural sources of water , water preservation</li> <li>. analysing the method of rain water harvesting</li> </ul>	<ul style="list-style-type: none"> <li>. smart class</li> <li>. project</li> <li>. discussion</li> </ul>	<ul style="list-style-type: none"> <li>. pen and paper test</li> <li>. flow chart</li> <li>. oral question</li> </ul>
	15 . Air around us pure	<ul style="list-style-type: none"> <li>. to know the idea about weather cock</li> <li>.air and its components</li> <li>. air pollution</li> </ul>	<ul style="list-style-type: none"> <li>. Recognizes the importance of air in our life and understanding how to reduce air pollution</li> </ul>	<ul style="list-style-type: none"> <li>. Smart class</li> <li>. discussion</li> </ul>	Pen and paper test
February	8 . Body movements	<ul style="list-style-type: none"> <li>. understand human body and its movements(joints)</li> </ul>	<ul style="list-style-type: none"> <li>. Differentiates the movement of different joints of our body</li> <li>. observes the movement of different animals such as snake , earthworm etc</li> </ul>	<ul style="list-style-type: none"> <li>. smart class</li> <li>. interactive lecturing</li> <li>. Stretching exercises</li> </ul>	<ul style="list-style-type: none"> <li>. oral question</li> <li>.memory matrix</li> </ul>
March			REVISION AND ANNUAL EXAM		

**Subject: Social science**

MONTH	TOPICS	LEARNING OBJECTIVE	PEDAGOGICAL PRACTICES	LEARNING OUTCOMES
JUNE	<ul style="list-style-type: none"> <li>• What where how and when</li> <li>• Understanding diversity</li> <li>• The earth in the solar system.</li> </ul>	<ul style="list-style-type: none"> <li>• To find out about the past</li> <li>• To understand the term ‘unity in diversity’</li> <li>• To know about solar system.</li> </ul>	<ul style="list-style-type: none"> <li>• story telling</li> <li>• group discussion</li> <li>• role play</li> <li>• smart class</li> </ul>	<ul style="list-style-type: none"> <li>• Appreciating the subject history and archaeologist</li> <li>• Developing curiosity</li> <li>• Inculcating the feeling of unity</li> </ul>
JULY	<ul style="list-style-type: none"> <li>• From gathering to growing food</li> <li>• Diversity and discrimination</li> <li>• Globe: latitude and</li> </ul>	<ul style="list-style-type: none"> <li>• To understand more about Palaeolithic and Neolithic age.</li> <li>• To understand the importance of</li> </ul>	<ul style="list-style-type: none"> <li>• discussion.</li> <li>• Explanation</li> <li>• Story telling</li> <li>• Role play</li> <li>• Smart class</li> </ul>	<ul style="list-style-type: none"> <li>• Developing detective skill</li> <li>• Love towards agriculture</li> <li>• Self awareness</li> </ul>

	longitude	equality <ul style="list-style-type: none"> <li>To know about latitude and longitude ,and heat zones</li> </ul>		<ul style="list-style-type: none"> <li>Self confidence</li> <li>Locating place</li> </ul>
AUGUST	<ul style="list-style-type: none"> <li>In the earliest cities</li> <li>What is government</li> <li>Motions of he earth</li> </ul>	<ul style="list-style-type: none"> <li>To know about rich culture of Indian subcontinent through the study of the cities like Harappa, Mohan jodaroetc</li> <li>To differentiate types and levels of government</li> <li>To differentiate rotation and revolution.</li> </ul>	<ul style="list-style-type: none"> <li>map.</li> <li>Story telling</li> <li>Project</li> <li>Discussion</li> <li>Roleplay</li> <li>Smart class</li> </ul>	<ul style="list-style-type: none"> <li>Develop the observation skill</li> <li>Finding out past of their own place</li> <li>Identifying democratic government</li> <li>Leadership quality</li> <li>Love towards different seasons</li> <li>Discipline</li> </ul>
SEPTEMBER	<ul style="list-style-type: none"> <li>New questions and ideas</li> <li>Key elements of democratic government.</li> </ul>	<ul style="list-style-type: none"> <li>To understand about Buddha ,Mahavira ,Upanishads etc</li> </ul>	<ul style="list-style-type: none"> <li>group discussion.</li> <li>Role play</li> <li>Explaining</li> <li>Smart class</li> </ul>	<ul style="list-style-type: none"> <li>Able to think new ways</li> <li>and live different ways</li> <li>able to mature judgement on</li> </ul>

	<ul style="list-style-type: none"> <li>maps</li> </ul>	<ul style="list-style-type: none"> <li>To know more about equality and justice</li> <li>To understand about types of maps and components of maps</li> </ul>		various social issues <ul style="list-style-type: none"> <li>to travel smart</li> </ul>
OCTOBER	<ul style="list-style-type: none"> <li>Ashoka :The emperor who gave up war</li> <li>Panchayathi raj</li> <li>Major domains of the earth</li> </ul>	<ul style="list-style-type: none"> <li>To know about Emperor Ashoka and his teachings</li> <li>To differentiate gram sabha and gram panchayath</li> <li>Levels of panchayath</li> <li>To understand atmosphere ,lithosphere ,hydrosphere and biosphere.</li> </ul>	<ul style="list-style-type: none"> <li>Story telling</li> <li>Explanation</li> <li>Role play</li> <li>Map</li> <li>Smart class</li> </ul>	<ul style="list-style-type: none"> <li>Respecting others religion</li> <li>Express opinion</li> <li>Identifying major domains of the earth</li> </ul>
NOVEMBER	<ul style="list-style-type: none"> <li>Our country India</li> </ul>	<ul style="list-style-type: none"> <li>To understand more about their own country</li> </ul>	<ul style="list-style-type: none"> <li>Map activity</li> <li>Explanation</li> <li>Smart class</li> </ul>	<ul style="list-style-type: none"> <li>Developing patriotism</li> </ul>
DECEMBER	<ul style="list-style-type: none"> <li>.Traders kings and pilgrims</li> <li>Rural administration</li> </ul>	<ul style="list-style-type: none"> <li>To understand how to find out trade and trade routs</li> <li>To understand the</li> </ul>	<ul style="list-style-type: none"> <li>explanation</li> <li>Map work</li> <li>Collecting information</li> </ul>	<ul style="list-style-type: none"> <li>Kind and loyal to motherhood</li> <li>Develop Intelligent democratic</li> </ul>

		laws of rural area	<ul style="list-style-type: none"> <li>Group discussion</li> <li>Smart class</li> </ul>	citizenship
JANUARY	<ul style="list-style-type: none"> <li>Urban administration</li> <li>India: climate vegetation and wild life</li> </ul>	<ul style="list-style-type: none"> <li>To understand the laws of urban area</li> <li>To understand major seasons</li> <li>To know about forest and conservation of forest.</li> </ul>	<ul style="list-style-type: none"> <li>Discussion</li> <li>Map</li> <li>Explanation</li> <li>Smart class</li> </ul>	<ul style="list-style-type: none"> <li>social competence</li> <li>love towards nature</li> <li>able to conserve resources</li> </ul>

**Subject: Maths**

Month	Topic	Learning Objectives	Pedagogical strategies	Learning outcomes	Assessment Strategy
June	1. Knowing our numbers	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Read and write numbers in Indian and International system</li> <li>• Compare numbers, use large numbers in practice</li> <li>• Estimate numbers</li> <li>• Read and write Roman numbers</li> </ul>	<ul style="list-style-type: none"> <li>• Realia</li> <li>• Smartclass</li> <li>• discussion</li> </ul>	<p>Student will be able to realise</p> <ul style="list-style-type: none"> <li>• greater numbers</li> <li>• place value</li> <li>• compare large numbers</li> <li>• numbers in both systems</li> <li>• Roman numbers</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Pen - paper test</li> </ul>
	2. Whole numbers	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Understand whole numbers</li> <li>• The number line</li> <li>• Add and subtract numbers</li> </ul>	<ul style="list-style-type: none"> <li>• Smartclass</li> <li>• Group discussion</li> <li>• Pose questions</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• The whole number system</li> <li>• Operations and properties of whole numbers</li> </ul>	<ul style="list-style-type: none"> <li>• Pen and paper test</li> <li>• Oral questions</li> <li>• quiz</li> </ul>
July	2. Playing with numbers	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Understand concept of factors and multiples</li> <li>• Prime and composite</li> </ul>	<ul style="list-style-type: none"> <li>• Realia</li> <li>• Smartclass</li> <li>• Pose questions</li> </ul>	<p>Student will be able to realise</p> <ul style="list-style-type: none"> <li>• The difference between factors</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Summarising</li> </ul>



		numbers <ul style="list-style-type: none"> <li>• Test of divisibility for numbers</li> <li>• Common factors and common multiples</li> <li>• HCF and LCM</li> </ul> REVISION AND PT1 EXAMINATION	discussion	and multiples <ul style="list-style-type: none"> <li>• Properties of prime and composite numbers</li> <li>• Find HCF and LCM</li> <li>• Solve word problems</li> </ul>	<ul style="list-style-type: none"> <li>• Pen – paper test</li> <li>• project</li> </ul>
August	3. Basic Geometrical ideas	Students will be able to <ul style="list-style-type: none"> <li>• Differentiate line ray line segment</li> <li>• Understand intersecting and parallel lines</li> <li>• Understand properties of curve, polygon, angles, triangles, quadrilaterals, circles</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Discussion</li> <li>• Pose questions</li> <li>• realia</li> </ul>	Students will be able to <ul style="list-style-type: none"> <li>• classify line, ray, line segment</li> <li>• differentiate parallel and intersecting lines</li> <li>• write properties of polygon, triangles, circles</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Summarising</li> <li>• Pen – paper test</li> <li>• puzzles</li> </ul>
	6. Integers	Students will be able to <ul style="list-style-type: none"> <li>• Identify integers</li> <li>• Represent integers on number line</li> <li>• Order integers</li> <li>• Add and subtract integers</li> </ul>	<ul style="list-style-type: none"> <li>• Project</li> <li>• Discussion</li> <li>• Smart class</li> <li>• Realia</li> </ul>	Students will be able to realise <ul style="list-style-type: none"> <li>• the importance of integers</li> <li>• represent integers on number line</li> <li>• add and subtract integers</li> </ul>	<ul style="list-style-type: none"> <li>• Worksheet</li> <li>• Pen and paper test</li> <li>• Oral questions</li> </ul>
September	9. Data handling	Students will be able to <ul style="list-style-type: none"> <li>• Record data</li> </ul>	<ul style="list-style-type: none"> <li>• Realia</li> <li>• Discussion</li> </ul>	Students will be able to	<ul style="list-style-type: none"> <li>• Oral questions</li> </ul>

		<ul style="list-style-type: none"> <li>Organise data</li> <li>Interpret and draw pictograph, bar graph ,</li> </ul>	<ul style="list-style-type: none"> <li>Smartclass</li> </ul>	<p>Realise</p> <ul style="list-style-type: none"> <li>to record and organise data</li> <li>Read , interpret and draw pictograph, bar graph</li> </ul>	<ul style="list-style-type: none"> <li>Pen and paper test</li> <li>Worksheet</li> </ul>
October	5.Understanding elementary shapes	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>Measure line segment</li> <li>Measure and draw angles</li> <li>Draw perpendicular lines</li> <li>Classify tringles, polygons, three dimentional shapes</li> </ul> <p>REVISION AND HALF YEARLY EXAMINATION</p>	<ul style="list-style-type: none"> <li>Smart class</li> <li>Pose questions</li> <li>Discussions</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>And draw line segment and angles</li> <li>Tell the properties and names of triangles,polygons as per th given property</li> <li>Three dimentional figures and its properties</li> </ul>	<ul style="list-style-type: none"> <li>Quiz</li> <li>Oralquestions</li> <li>Worksheet</li> </ul>
November	7. Fractions	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>Represent fractions</li> <li>Represent fractions on number line</li> <li>Simplify fractions</li> <li>Understand equivalent fractions</li> </ul>	<ul style="list-style-type: none"> <li>Smart class</li> <li>Discussion</li> <li>Project</li> <li>Interactive lecture</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>Types of frations</li> <li>Operations on fractions</li> <li>Represent fractions on</li> </ul>	<ul style="list-style-type: none"> <li>Pen and paper test</li> <li>Worksheet</li> <li>Oralquestions</li> </ul>

	8. Decimals	<ul style="list-style-type: none"> <li>• Compare and order fractions</li> <li>• Add and subtract like fractions</li> <li>• Convert improper fractions to mixed and viceversa</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Understand concept of tenth, hundredth, thousandth</li> <li>• Compare decimals</li> <li>• Use decimals in money, length, weight,</li> <li>• Add and subtract decimals</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Realia</li> <li>• Discussion</li> </ul>	<p>number line</p> <ul style="list-style-type: none"> <li>• Equivalent fractions</li> <li>• Solveword problems</li> </ul> <p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• The concept of tenth, hundredth, thousandth</li> <li>• The importance of decimals in daily life</li> <li>• And do operations like add, sub on decimals</li> </ul>	<ul style="list-style-type: none"> <li>• Worksheet</li> <li>• Quiz</li> <li>• Pen and paper test</li> </ul>
December	10. Mensuration	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Understand the concept of perimeter and area</li> <li>• Solve sums related to perimeter and area</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Pose questions</li> <li>• group discussion</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• The difference of perimeter and area of different figures</li> <li>• And find perimeter and area of closed figures</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Class edge activity</li> <li>• Pen and paper test</li> </ul>

January		PT2 AND EXAMINATION			
	11. Algebra	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Recognise variables and constants</li> <li>• Use of variables in common rule</li> <li>• Expression with variables</li> <li>• Using expression practically</li> </ul> <p>Understand equation</p>	<ul style="list-style-type: none"> <li>• discussion</li> <li>• smart class</li> <li>• realia</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• The difference between variables, constants</li> <li>• The Use of variables</li> <li>• Use expressions</li> <li>• Solve sums related to it</li> </ul>	<ul style="list-style-type: none"> <li>• Pen and paper test</li> <li>• Quiz</li> <li>• Worksheet</li> </ul>
	12. Ratio and proportions	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Understand concept of ratios and proportions</li> <li>• Unitaty method</li> </ul>	<ul style="list-style-type: none"> <li>• smart class</li> <li>• group discussion</li> <li>• project</li> <li>• realia</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• The concept of ratios and proportions</li> <li>• Solve sums related to unitary method</li> </ul>	<ul style="list-style-type: none"> <li>• Oralquestions</li> <li>• Quiz</li> <li>• Pen and paper test</li> </ul>

February	14. Practical geometry	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>Construct circle, line segment, perpendicular lines</li> <li>Construct angles, bisector of angles,</li> <li>Construct special angles using compass and ruler</li> </ul>	<ul style="list-style-type: none"> <li>smart class</li> <li>group discussion</li> <li>project</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>The method to construct circles, perpendicular lines</li> <li>To construct angles and its bisectors, special angles accurately by using compass and ruler</li> </ul>	<ul style="list-style-type: none"> <li>Pen and paper test</li> <li>Worksheet</li> <li>Oral questions</li> </ul>
	13. Symmetry	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>Understand the concept of symmetry</li> <li>Draw symmetrical figures with the lines of symmetry</li> <li>Understand reflection</li> <li>patterns</li> </ul> <p>REVISION AND FINAL EXAMINATION</p>	<ul style="list-style-type: none"> <li>Smart class</li> <li>Realia</li> <li>Group discussion</li> <li>Interactive lecture</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>Symmetry, lines of symmetry</li> <li>Draw symmetrical figures</li> <li>The concept of patterns and reflection</li> </ul>	<ul style="list-style-type: none"> <li>Pen and paper test</li> <li>Worksheet</li> <li>quiz</li> </ul>
March					

**Subject: Malayalam**

Month	Topic	Short term outcome	Pedagogical practice	Longterm outcome
June	1.ഒരുചിത്രം 2.ഓടയിൽ നിന്ന്	പാരായണം കവിപരിചയം വായന,നോവലിസ്റ്റിനെ അറിയൽ	കുറിപ്പ്,പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	മാതൃസ്നേഹ-വാത്സല്യമറിയുന്നു സഹജീവികളെ സ്നേഹിക്കുന്നു
July	3 മയന്റെ മായാജാലം 4.പടയണി	പാരായണം, കവിപരിചയം വായന	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ നാടൻകലകളെ കുറിച്ചറിയുന്നതിന്	തുള്ളൽ പ്രസ്ഥാനത്തെ അറിയുന്നു പ്രകൃതിയും കലയും തമ്മിലുള്ള ബന്ധം
Aug	5ഓണം അന്നും ഇന്നും	( ഓണം-കലാനുസൃതമാറ്റം)വായന	ഐതീഹ്യം-ഓണം പാഠാനുബന്ധപ്രവർത്തനങ്ങൾ	ഐക്യത്തോടെ ജീവിക്കുക
Sep	6.ബാലലീല	പാരായണം,കവയി-ത്രിയെ അറിയുന്നു	പാഠാനുബന്ധപ്രവർത്തനങ്ങൾ,	ബാല്യകാലസ്നേഹങ്ങൾ
Oct	7.അജയ്യതയും-ടെപ്രതീകം	ഗാന്ധിജിയെ അറിയുന്നതിന്	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ, വായന	കുട്ടിയിൽദേശസ്നേഹം വളരുന്നതിന്
Nov	8.പരിശ്രമം..... എന്തിനേയും	വായന,ആത്മകഥ-യെക്കുറിച്ചറിയുന്നു	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	പരിശ്രമത്തിലൂടെ എന്തുംനേടാം
Dec	9വിക്ടോറിയ വെള്ളച്ചാട്ടം 10പൂഴി	വായന,എസ് .കെ-യെക്കുറിച്ചറിയുന്നു വായന,ഉപന്യാസ-രചന	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ, യാത്രാവിവരണം പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ( ചർച്ച)	നീരീക്ഷണപരവും നദീസംരക്ഷണം
Jan	11 ഊഞ്ഞാൽ പാട്ട്	പാരായണം, കവിപരിചയം	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	പിതൃസ്നേഹം
Feb	12.വേഗമുറങ്ങു	പാരായണം കവിപരിചയം	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	പ്രകൃതിയെ അമ്മയായി കാണുന്നു
Mar	13ജീവിതത്തിന്റെ ഉപ്പ്	ഉപ്പുകുറ്റനെ അറിയുന്നു,വായന	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	പതിനുകുലകഥ അറിയുന്നു

**Annual Pedagogical Plan 2020-2021**

**Class VII**

**Subject: Science**





July	Nutrition in Animals	Students will be able to learn a) Digestion in humans and grass eating animals b) Feeding and digestion in Amoeba	Discussion Smart class	Oral questions Pen-paper test	Students will be able to know a) Draw labelled diagram of human digestive system
	Acid, Bases, Salt	Students will be able to identify a) Natural indicators b) Neutralisation	Discussion Flow-chart Audio-visual aid Experiment	Oral test Pen-paper test	Students will be able to know a) Acidic, basic, and neutral substances b) Write word equation for acid-base reactions
	Motion and Time	Students will be able to know a) Speed b) Units of time and speed c) Distance-time graph  PERIODIC TEST-1	Discussion Audio-visual aid	Oral test Pen-paper test	Students will be able to know a) Relates processes and phenomena with causes- wind speed with air pressure b) Speed of moving objects c) Time period of a simple pendulum d) Distance-Time graph
August	Physical and chemical changes	Students will be able to know a) Physical and chemical changes b) Rusting and crystallisation	Demonstration Discussion Smart class	Oral test Debate Pen-paper test	Students will be able to know a) Classifies materials based on physical and chemical properties b) Applies learning of scientific concepts in

	Respiration in organisms	Students will be able to understand a)Mechanism of breathing in humans b)Breathing in other animals-insects, earthworm,fish	Discussion Model of respiratory system	Labelling Oral test	day-to-day life c)Taking measures to prevent corrosion  Students will be able to know a)To write word equation for aerobic and anaerobic respiration b)Draw labelled diagrams
September	Fibre to fabric	Students will be able to learn a)Animal fibres b)Processing of silk and wool	Discussion Audio-visual aid	Oral question Pasting different pieces of fabrics	Students will be able to a)Classify animal and plant fibres based on properties b)Processing of animal fibres c)Life cycle of silk moth
October	Soil	HALF YEARLY EXAMINATION  Students will be able to know a)Soil profile b)Types of soil	Demonstration Discussion Audio-visual aid	Oral test Assignment	Students will be able to know a)Crops grown with types of soil

November	Winds, storms and cyclones	<p>c)Percolation rate of water in soil d)soil and crops</p> <p>Students will be able to know a)Air exerts pressure b) Air expands on heating c)High speed winds are reduced air pressure</p>	<p>Demonstration Audio-visual aid Discussion</p>	<p>Collection of paper cuttings Oral test</p>	<p>b)Working with soil c)Planting trees to avoid soil erosion</p> <p>Students will be able to a)Relate processes and phenomena-wind speed with air pressure b)Model of Anemometer c)Taking measures during and after disasters</p>
	<p>Water-A precious Resource</p> <p>Transportation in Plants and Animals</p>	<p>Students will be able to know a) How much water is an available form of water b) Depletion of water table c)Effect of water scarcity on plants</p> <p>Students will be able to learn a) Circulatory system b) excretion in Animals c)Transport of substances in plants</p>	<p>Discussion Audio-visual aid</p> <p>Discussion Model of Stethoscope</p>	<p>Poster making Oral test</p> <p>Labelling Chart making</p>	<p>Students will be able to know a) Depletion of water table with human activities b)Methods for treatment of polluted water for reuse</p> <p>Students will be able to know a)circulatory and excretory systems in humans and plants b)Measurement of pulse rate</p>
December	Forest- our life lines	Students will be able to	Discussion	Picture collection of	Students will be able to

		<p>learn</p> <p>a) forest as a habitat</p> <p>b) Interrelationship of plant, soil and decomposers in a forest</p>	<p>Audio-visual aid</p>	<p>endangered species</p>	<p>a) make efforts to protect environment</p> <p>b) Sensitising others with the consequences of excessive consumption of natural resources</p>
	Electric current and its effects	<p>Students will be able to know</p> <p>a) symbols of electric components</p> <p>b) Magnetic effect of electric current</p> <p>c) Electric bell and electromagnet</p>	<p>Demonstration</p> <p>Discussion</p>	<p>Model making</p>	<p>Students will be able to know</p> <p>a) diagram of electric circuit</p> <p>b) Heating and magnetic effect of electric current</p> <p>c) Constructs model using material from surroundings</p> <p>d) Connecting two or more electric cells in proper in devices</p>
January	Light	<p>PERIODIC TEST-II</p> <p>Students will be able to learn</p> <p>a) Reflection of light</p> <p>b) Travelling of light</p> <p>c) Playing with spherical</p>	<p>Demonstration</p> <p>Discussion</p> <p>Audio-visual aid</p>	<p>Students will be able to know</p> <p>a) Mirrors and lenses</p> <p>b) Images formed</p>	<p>Construction of Newton's colour disc</p>

	Reproduction in plants	<p>mirrors</p> <p>Students will be able to know</p> <p>a) Modes of reproduction</p> <p>b) Vegetative propagation</p> <p>c) Pollination</p> <p>d) Fertilisation and agents of seed dispersal</p>	<p>Discussion</p> <p>Audio- visual aid</p>	<p>by mirrors and lenses</p> <p>Students will be able to know</p> <p>a)unisexual and bisexual flowers</p> <p>b)Cultivation by vegetative propagation</p>	
February	<p>Weather, climate and Adaptations to climate</p> <p>Waste water story</p>	<p>Students will be able know</p> <p>a) Weather and climate</p> <p>b) Climate and adaptation</p> <p>Students will be able to know</p> <p>a)weather and climate</p> <p>b)climate and adaptation</p>	<p>Discussion</p> <p>Audio-visual aid</p> <p>Discussion</p> <p>Audio-visual aid</p>	<p>Students will be able to</p> <p>a) Identify animals based on special features</p> <p>b) Makes effort to protect environment</p> <p>Students will be able to</p> <p>a)minimising generation of pollutants</p> <p>b)Following good practices for sanitation at public places</p> <p>c)exhibits values of honesty</p>	<p>Cross-word puzzle</p> <p>Oral test</p> <p>Oral test</p> <p>Pen-paper test</p>
March	Revision	Annual examination			

**Subject: SocialScience**

MONTH	TOPIC	SHORT TERM LEARNING OUTCOME	PEDAGOGICAL PRACTICES	LONG TERM LEARNING OUTCOME
JUNE	<ul style="list-style-type: none"> <li>Tracing changes through a thousand years.</li> <li>Environment</li> <li>On equality</li> </ul>	<ul style="list-style-type: none"> <li>To identify different sources of history available in books.</li> <li>Understand the key concepts like natural environment, human made environment, ecosystem etc.</li> <li>Learn about the significance of</li> </ul>	<ul style="list-style-type: none"> <li>Assignment</li> <li>Visual aid</li> <li>Chart making:</li> <li>Discussion</li> <li>Discussion</li> </ul>	<ul style="list-style-type: none"> <li>Analyses factors that impact development of specific regions</li> <li>Able to investigate changes in the society</li> <li>Acquire observation skill</li> <li>Develop drawing skill</li> <li>Show respect towards nature</li> <li>Able to identify de</li> <li>Different types of environment</li> </ul>



		equality in democracy	<ul style="list-style-type: none"> <li>• Poster making</li> </ul>	<ul style="list-style-type: none"> <li>• Interprets social, political and economic issue in one's own region with reference to right to equality.</li> </ul>
JULY	<ul style="list-style-type: none"> <li>• New kings and kingdoms</li> <li>• Inside our earth</li> </ul>	<ul style="list-style-type: none"> <li>• To familiarize with the emergence of new dynasties</li> <li>• To analyse socio-political and economic changes during the medieval period</li> <li>• To understand the major layers of the earth's interior</li> <li>• To understand the types of rocks</li> </ul>	<ul style="list-style-type: none"> <li>• Timeline</li> <li>• Visual aid</li> <li>• Collection of different types of rocks</li> <li>• Chart making</li> </ul>	<ul style="list-style-type: none"> <li>• Relates key historical developments during the medieval period occurring in one place with another.</li> <li>• Develop observation skill</li> <li>• Identify different types of rocks</li> <li>• Acquire investigative thinking</li> </ul>

AUGUST	<ul style="list-style-type: none"> <li>• The Delhi sultans</li> <li>• Role of government in health</li> <li>• Our changing earth</li> </ul>	<ul style="list-style-type: none"> <li>• To analyse the administrative measures and strategies for military control adopted by different kingdoms</li> <li>• Understand the two types of health care systems</li> <li>• Identify the role of health in the work of government</li> <li>• Understand the formation of land forms due to various factors</li> </ul>	<ul style="list-style-type: none"> <li>• Drama</li> <li>• Project work</li> <li>• Newspaper collage</li> <li>• Demos</li> <li>• Mock drill</li> <li>• Visual aid</li> </ul>	<ul style="list-style-type: none"> <li>• Draws comparison between policies of different rulers</li> <li>• Develop administrative power</li> <li>• Learners will begin to visualise the desired role of government</li> <li>• Acquire confidence to express their views on public issues</li> <li>• Develop a questioning attitude</li> <li>• Identify different land forms</li> </ul>
SEPTEMBER	<ul style="list-style-type: none"> <li>• Mughal empire</li> </ul>	<ul style="list-style-type: none"> <li>• Understand the administrative policies of Mughal rulers</li> </ul>	<ul style="list-style-type: none"> <li>• Picture collection</li> <li>• Field visit</li> <li>• Project</li> </ul>	<ul style="list-style-type: none"> <li>• To become an involved learner</li> </ul>

	<ul style="list-style-type: none"> <li>• Air</li> <li>• How the state government works?</li> </ul>	<ul style="list-style-type: none"> <li>• Explain the composition and structure of the atmosphere</li> <li>• Understand the process of election to the legislative assembly</li> <li>• Understand the work of government</li> </ul>	<ul style="list-style-type: none"> <li>• Role play</li> <li>• Chart making</li> <li>• Map work</li> <li>• Visual aid</li> <li>• Mock election</li> </ul>	<ul style="list-style-type: none"> <li>• Analyses the factors contributing to pollution in their surrounding and list measures to prevent it.</li> <li>• Develop care towards atmosphere</li> <li>• To show respect to political leaders</li> <li>• Develop a curiosity to participate in elections</li> <li>• Eagerness to caste the vote</li> </ul>
OCTOBER	<ul style="list-style-type: none"> <li>• Water</li> </ul>	<ul style="list-style-type: none"> <li>• Understand the process of water cycle</li> <li>• Identify the different types of movement in the ocean water</li> </ul>	<ul style="list-style-type: none"> <li>• Diagrammatic presentation</li> <li>• Map work</li> </ul>	<ul style="list-style-type: none"> <li>• Reflects on the factors leading to disasters and calamities</li> <li>• Understand the need for</li> </ul>

				conservation of water
NOVEMBER	<ul style="list-style-type: none"> <li>• Growing up as boys and girls</li> <li>• Towns, traders and craft's persons</li> <li>• Natural vegetation</li> </ul>	<ul style="list-style-type: none"> <li>• Understand the discrimination on the basis of gender</li> <li>• Describe distinctive developments in style and technology used for construction of temples, tombs and mosques with examples</li> <li>• Understand different types of forests and wildlife</li> </ul>	<ul style="list-style-type: none"> <li>• Debate</li> <li>• Visual aid</li> <li>• Story telling</li> <li>• Discussion</li> <li>• Picture collection</li> <li>• Picture collection</li> <li>• Visual aid</li> </ul>	<ul style="list-style-type: none"> <li>• Inculcate positive attitude towards gender equality</li> <li>• Inspired by the architectural splendour</li> <li>• Sensitivity, appreciation and respect for wildlife</li> </ul>
DECEMBER	<ul style="list-style-type: none"> <li>• Tribes, nomads and settled communities</li> </ul>	<ul style="list-style-type: none"> <li>• Understand the relationship between livelihood patterns and the geographical</li> </ul>	<ul style="list-style-type: none"> <li>• Discussion</li> <li>• Assignment</li> </ul>	<ul style="list-style-type: none"> <li>• Acquire comparison skill</li> <li>• Develop social efficiency</li> </ul>

	<ul style="list-style-type: none"> <li>Human environment interaction, tropical and subtropical region</li> </ul>	<p>condition of the area inhabited</p> <ul style="list-style-type: none"> <li>Identify similarities and differences in the life of people in different natural regions of the world.</li> </ul>	<ul style="list-style-type: none"> <li>Quiz</li> <li>Visual aid</li> <li>Debate</li> </ul>	<ul style="list-style-type: none"> <li>Able to make wise decisions about how the planets resources should be used</li> </ul>
JANUARY	<ul style="list-style-type: none"> <li>Devotional paths to the divine</li> <li>Life in the Deserts</li> </ul>	<ul style="list-style-type: none"> <li>Analyses factors which led to the emergence of new religious ideas and movements</li> <li>Understand the life of people in the hot desert and cold desert</li> </ul>	<ul style="list-style-type: none"> <li>Discussion</li> <li>Field visit</li> <li>Collection of bhajans</li> <li>Map work</li> <li>Visual aid</li> </ul>	<ul style="list-style-type: none"> <li>Draws inference from poetry of bhakti and Sufi saints about existing social order</li> <li>Respect towards the religions</li> <li>Draws interrelationship between climatic regions and life of people living in different climatic regions</li> </ul>

FEBRUARY	<ul style="list-style-type: none"> <li>Market around us</li> </ul>	<ul style="list-style-type: none"> <li>Differentiate between different kinds of market</li> <li>Understand the benefits of market</li> </ul>	<ul style="list-style-type: none"> <li>Project</li> <li>Visual aid</li> </ul>	<ul style="list-style-type: none"> <li>Develop observation skill</li> <li>Identify different kinds of market</li> <li>Show respect to human labour</li> </ul>
MARCH	ANNUAL EXAMINATION			

**Subject: Maths**

Month	Topic	Learning Objectives	Pedagogical strategies	Learning outcomes	Assessment Strategy
June	1- Integers	Students will be able to understand properties of addition, subtraction, multiplication & division of integers.	<ul style="list-style-type: none"> <li>• Worksheet</li> <li>• Realia</li> <li>• Smartclass</li> <li>• Problem solving</li> <li>• Brainstorming questions</li> </ul>	Student will be able to realise <ul style="list-style-type: none"> <li>* properties of integers</li> <li>*How to apply in real life</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions.</li> <li>• Pen-paper test</li> <li>• Puzzle</li> </ul>
	2- Fractions & Decimals	Students will be able to <ul style="list-style-type: none"> <li>*Recall different types of fraction.</li> <li>*Add &amp; subtract fraction</li> <li>*Multiply and to divide fraction</li> <li>*Understand equivalent fraction</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Realia</li> <li>• Discussion</li> </ul>	Students will be able to realise <ul style="list-style-type: none"> <li>• Different types of fraction</li> <li>• Operations on fraction.</li> <li>• Equivalent fraction.</li> </ul>	<ul style="list-style-type: none"> <li>*worksheet</li> <li>*Quiz</li> <li>* Class edge</li> <li>* Puzzles</li> </ul>

July	2- Decimals (cont'd)	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>Understand the place value chart for decimals.</li> <li>Represent decimals as fractions.</li> <li>Multiplication &amp; division of decimals.</li> </ul>	<ul style="list-style-type: none"> <li>Smart class</li> <li>Pose questions</li> <li>Group discussion</li> <li>Realia</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>*the place value of decimal numbers.</li> <li>*use of decimals in real life</li> </ul>	<ul style="list-style-type: none"> <li>Oral questions</li> <li>Pen and paper test</li> <li>Class edge</li> <li>Puzzle</li> </ul>
	3- Data Handling	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>*collect and organise data</li> <li>*understand the representative values – mean, mode, median &amp; range.</li> <li>* read and interpret bar graph with different purposes</li> <li>* analyse chance and probability.</li> </ul>	<ul style="list-style-type: none"> <li>*Project</li> <li>*Discussion</li> <li>* Smart class</li> <li>*Realia</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>The importance of representative values in real life</li> </ul>	<ul style="list-style-type: none"> <li>Worksheet</li> <li>Oral questions</li> <li>Pen-paper test.</li> </ul>
	PT 1	REVISION & EXAM			
August	4- Simple equations	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>*set up an equation</li> <li>* understand what is an equation</li> <li>*solving equation</li> <li>*application of simple equation to practical situation</li> </ul>	<ul style="list-style-type: none"> <li>* Project</li> <li>*Discussion</li> <li>*Smart class</li> <li>*Realia</li> <li>*Pose questions</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>*The importance of equation</li> <li>*how it plays in real life</li> </ul>	<ul style="list-style-type: none"> <li>Oral questions</li> <li>Pen and paper test</li> <li>Worksheet</li> <li>Demonstration</li> </ul>



	14 –Symmetry	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>*understand laws of symmetry for regular polygons</li> <li>*how to draw line symmetry, rotational symmetry, etc.</li> </ul>	<ul style="list-style-type: none"> <li>*Learning from surroundings</li> <li>* Interactive method</li> <li>*Realia</li> <li>*Smart class</li> <li>*Drawing figures</li> </ul>	<p>Student will be able to realise</p> <ul style="list-style-type: none"> <li>• The laws of symmetry</li> <li>• How it plays in real life</li> </ul>	<ul style="list-style-type: none"> <li>• Worksheet</li> <li>• Pen-paper test</li> </ul>
September	5- Lines & Angles	<p>Student will be able to:-</p> <ul style="list-style-type: none"> <li>*understand more about lines, line segments, rays, etc.</li> <li>*recognise related angles</li> <li>*to make the student aware about pairs of lines</li> <li>*how to check whether the lines are parallel or not.</li> </ul>	<ul style="list-style-type: none"> <li>*project</li> <li>*flowchart</li> <li>*smart class</li> <li>*Pose questions</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>*more about related angles</li> <li>*about rules for drawing parallel lines.</li> </ul>	<ul style="list-style-type: none"> <li>• Worksheet</li> <li>• puzzles</li> <li>• class edge activity</li> </ul>
	12- Algebraic expressions	<p>Students will be able to :-</p> <ul style="list-style-type: none"> <li>*understand how expressions are formed.</li> <li>* recognise terms, factors and coefficients of an expression</li> <li>* identify like and unlike terms</li> <li>* classify monomials, binomials and trinomials.</li> <li>*add and subtract the expression.</li> <li>* how to find the value of an expression.</li> </ul>	<ul style="list-style-type: none"> <li>*concept map</li> <li>*smart class</li> <li>*flowchart</li> <li>*realia</li> <li>*problem solving</li> </ul>	<ul style="list-style-type: none"> <li>*its application in real life</li> <li>*how to give values in an expression.</li> </ul>	<ul style="list-style-type: none"> <li>• Pen and paper test</li> <li>• Quiz</li> <li>• Puzzle</li> <li>• worksheet</li> </ul>

October	6- Triangle and its properties	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• identify what is median and altitude of a triangle.</li> <li>• Understand exterior angle property and angle sum property of a triangle.</li> <li>• Understand the pythagorus theorem</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Realia</li> <li>• Pose questions</li> <li>• Group discussion</li> </ul>	<p>Students will be able to realise :-</p> <ul style="list-style-type: none"> <li>• Its application in real life</li> <li>• Different properties of triangles</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Worksheet</li> <li>• Puzzle</li> <li>• Class edge</li> </ul>
	HALF YEARLY EXAM	REVISION & EXAM			
November	7- Congruence of triangles	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Recognise congruence of plane figures</li> <li>• Understand congruency of angles and triangles.</li> <li>• Understand the criteria for congruence of triangles .</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Realia</li> <li>• Project</li> <li>• Seminar</li> </ul>	<p>Students will be able to realise:-</p> <ul style="list-style-type: none"> <li>• its application in life</li> <li>• about congruency</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Pen and paper test</li> <li>• Class edge</li> </ul>
	8- Comparing Quantities	<p>Students will be able to:-</p> <ul style="list-style-type: none"> <li>• Recognise equivalent ratio</li> <li>• Calculate percentage</li> <li>• Understand about cost price and selling price</li> <li>• Aware about simple interest</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Problem solving</li> <li>• Interactive learning</li> <li>• Pose questions</li> </ul>	<p>Students will be able to realise:-</p> <ul style="list-style-type: none"> <li>• calculate percentages of their marks.</li> <li>• Apply in business field</li> <li>• In banking</li> </ul>	<ul style="list-style-type: none"> <li>• pen and paper test</li> <li>• Class edge activity</li> <li>• Oral questions</li> <li>• Problem solving</li> </ul>

December	10 – Practical geometry	<p>Students will be able to :-</p> <ul style="list-style-type: none"> <li>Construct a parallel line to a given line.</li> <li>Construct of triangles using SSS criterion, SAS criterion ASA criterion &amp; RHS criterion.</li> <li>Develop their drawing skills</li> </ul>	<ul style="list-style-type: none"> <li>Smart class</li> <li>Demonstration</li> <li>Project</li> <li>Realia</li> </ul>	<p>Students will be able to realise:-</p> <ul style="list-style-type: none"> <li>The use of geometry in their lives</li> <li>Develops his talent in civil engineering</li> </ul>	<ul style="list-style-type: none"> <li>Oral questions</li> <li>Pen and paper test</li> <li>Quiz</li> <li>Worksheet</li> <li>Summarising</li> </ul>
January	PT 2  9- Rational Numbers	<p>REVISION &amp; EXAM</p> <p>Students will be able to :-</p> <ul style="list-style-type: none"> <li>Realise the need for rational numbers and more about rational numbers.</li> <li>Compare rational numbers</li> <li>Do operations on rational numbers.</li> </ul>	<ul style="list-style-type: none"> <li>Concept map</li> <li>Demonstration</li> <li>Interactive lecture method</li> <li>Project</li> <li>Pose questions</li> </ul>	<p>Students will be able to realise:-</p> <ul style="list-style-type: none"> <li>The need for rational numbers</li> <li>How to do operations with rational numbers</li> </ul>	<ul style="list-style-type: none"> <li>Worksheet</li> <li>Oral questions</li> <li>Pen paper test</li> <li>Quiz</li> <li>Flow chart</li> </ul>
February	11- Perimeter & Area	<p>Students will be able to:-</p> <ul style="list-style-type: none"> <li>Identify different geometrical shapes</li> <li>Understand the formula to calculate areas of each shapes</li> <li>Convert units and how to apply it.</li> </ul>	<ul style="list-style-type: none"> <li>Realia</li> <li>Pose questions</li> <li>Interactive lecture</li> <li>Mnemonics</li> <li>Flowchart</li> </ul>	<p>Students will be able to realise:-</p> <ul style="list-style-type: none"> <li>Different shapes</li> <li>skill in drawing</li> <li>learn from real life situations</li> </ul>	<ul style="list-style-type: none"> <li>Worksheet</li> <li>Class edge activity</li> <li>Puzzles</li> <li>Quiz</li> </ul>

February	13- Exponents & powers	<p>Students will be able to :-</p> <ul style="list-style-type: none"> <li>Analyse exponents</li> <li>Understand laws of exponents</li> <li>Develop examples using laws of exponents</li> <li>Recognise decimal number system.</li> </ul>	<ul style="list-style-type: none"> <li>Smart class</li> <li>Interactive lecture method</li> <li>Pose questions</li> <li>Project</li> </ul>	<p>Students will be able to realise :-</p> <ul style="list-style-type: none"> <li>how to write large numbers using exponents.</li> <li>The application of laws of exponents</li> <li>To write decimal number system</li> </ul>	<ul style="list-style-type: none"> <li>Oral questions</li> <li>Memory matrix</li> <li>Mind mapping</li> <li>Pen-paper test</li> </ul>
March	Annual Exam	REVISION & EXAM			

**Subject: Malayalam**

Month	Topic	Short term outcome	Pedagogical practice	Longterm outcome
June	1.അളകുന്നയിലെ വെയന,ലേഖ- വെള്ളാമംകല്ലുകൾ കണങ്ങിയത് 2.പൂക്കൊതിയിക്കൊ നെനിക്കാവതില്ലേ	വായന,കഥാകൃ ത്തിനെ അറിയൽ പാരായണം, കവിപരിചയം	കുറിപ്പ്,പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	സഞ്ചാരസാഹി- ത്യത്തെ അറിയുന്നു നിരീക്ഷണപരവും പരസ്പരഹിതം
July	3അശ്വതി 4.കൊച്ചുനൂജൻ	വായന,കഥാകൃ ത്തിനെ അറിയൽ പാരായണം, കവിപരിചയം	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	ആഗ്രഹങ്ങളെ അതി ജീവിക്കുക സഹോദരസ്പന്ദനം ഉള്ളവരാകുന്നു
Aug	5ഒരുമനൂഷ്യൻ	വായന,കഥാകൃ ത്തിനെ അറിയൽ	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	മനുഷ്യത്വമുള്ളവ രായി വരുന്നു
Sep	6വീണപൂവ്	പാരായണം, കവിപരിചയം	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	സൗന്ദര്യംസ്ഥാപി- യല്ലെന്ന് അറിയുന്നു
Oct	7.എനിക്കിരു സ്വപ്നമുണ്ട്	സ്ഫുടമായ വായന	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ പ്രസംഗരചന	പ്രസംഗകഥയെ അറിയുന്നു
Nov	8.ഗാനംകേട്ട നേരം	പാരായണം, കവിപരിചയം	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	കൃഷ്ണഗാഥ- യെക്കുറിച്ചറിയുന്നു
Dec	9വെള്ളപ്പൊക്കം 10.മീനുകളുടെ ആകാശവും പറവകളുടെ ഭൂമിയും	പാരായണം, കവിപരിചയം വായന,കഥാകൃ ത്തിനെ അറിയൽ	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	സ്വപ്നംകാണുവാനുള്ള പ്രേരണ നൽകുന്നു നദീസംരക്ഷണം സൗഹൃദം
Jan	11 പ്രാതൽ	വായന,കഥാകൃ ത്തിനെ അറിയൽ	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	ഹാസ്യകഥാസ്വാദനം
Feb	12കരുവനൂർ വീരൻ	വായന	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ,ശേഖരണം	തെയ്യത്തെ അറിയുന്നു
Mar	13ഞാറ്റുവേല പ്പുകൾ	പാരായണം, കവിപരിചയം	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	ഞാറ്റുവേലയെ അറിയുന്നു

**Annual Pedagogical Plan 2020-2021**

**Class VIII**

**Subject: Science**

MONTH	TOPICS	SHORT TERM LEARNING OUTCOMES	PEDAGOGICAL PRACTICES	LONG TERM LEARNING OUTCOMES	ASSESSMENT STRATEGIES
JUNE	1.Crop production and Management.	Students will be able to: <ul style="list-style-type: none"> <li>Identify basic practices of crop production.</li> <li>Understand manure and fertilizer.</li> <li>Explain different process in farming.</li> </ul>	Discussion. Smart class. Interaction. Peer group discussion	Students will be able to <ul style="list-style-type: none"> <li>Classify seasonal crops.</li> <li>Apply learning concepts to increase crop production</li> </ul>	Oral test Pen paper test.
	3. Synthetic fibres and plastics	<ul style="list-style-type: none"> <li>Understand natural and synthetic fibres.</li> <li>Characterises the synthetic fibres.</li> </ul>	Smart class. Interactive learning. Discussion.	<ul style="list-style-type: none"> <li>Able to differentiate materials as natural and synthetic.</li> </ul>	Worksheets Oral test Pen paper test. Debate .
	11. Force and Pressure.	<ul style="list-style-type: none"> <li>Define force</li> <li>Differentiate contact and non contact forces.</li> <li>Define pressure.</li> <li>Explain liquid and atmospheric</li> </ul>	Interactive lecturing , hands on learning, smart class, individual	<ul style="list-style-type: none"> <li>Exhibits creativity in designing and planning.</li> <li>Conduct simple investigations to seek answers to queries.</li> </ul>	Puzzle solving Test paper Problem solving.



		pressure.	activities .		
JULY	3. Synthetic fibres and plastics ( continuation)	<ul style="list-style-type: none"> <li>Explains advantages of plastics</li> <li>Effects of plastics in the environment.</li> </ul>	Debates Smart class	<ul style="list-style-type: none"> <li>Able to apply the scientific concepts in day to day life.</li> </ul>	Assignment
	12. Friction	<ul style="list-style-type: none"> <li>Defines friction.</li> <li>Understands the factors affecting friction.</li> <li>Identifies type of friction.</li> </ul> <p>PERIODIC TEST I</p>	Smart class Demonstrations Interactive learning	<ul style="list-style-type: none"> <li>Able to apply the acquired concept to increase and decrease friction.</li> </ul>	OTBA Test paper
AUGUST	2. Micro-organisms: friend or foe.	<ul style="list-style-type: none"> <li>Classify useful and harmful microbes.</li> <li>Explains methods of food preservation.</li> </ul>	Discussion . Observations . Narrative technique.	<ul style="list-style-type: none"> <li>Conduct investigation on causes and control of communicable diseases.</li> <li>Applies learning concept in food preservation.</li> </ul>	Quiz Listing Oral Questions
	Metals and non metals	<ul style="list-style-type: none"> <li>Able to classify materials based on their properties.</li> </ul>	Smart class. Hands on learning Demonstrations Smart class Discussion	<ul style="list-style-type: none"> <li>Able to Write chemical equations for reactions.</li> </ul>	Puzzle solving Paper pen test. OTBA
SEPTEMBER	13.Sound	<ul style="list-style-type: none"> <li>Explains production and propagation of sound.</li> <li>Identifies the parts of ear and voice</li> </ul>	Discussion  Smart class	<ul style="list-style-type: none"> <li>Constructs model using materials from surroundings.</li> </ul>	Model making.  Oral test



	7. Conservation of plants and animals.	<p>box.</p> <ul style="list-style-type: none"> <li>Identifies characteristics of sound.</li> <li>Distinguish audible and inaudible sound.</li> <li>Noise pollution.</li> </ul> <ul style="list-style-type: none"> <li>Analyse and interpret the causes and consequences of deforestation.</li> <li>Differentiate flora and fauna</li> </ul>	<p>Drawing diagrams.</p> <p>Collection of data. Group discussion Smart class.</p>	<ul style="list-style-type: none"> <li>Makes efforts to reduce noise pollution.</li> <li>Understands the importance of planting trees.</li> <li>Applies scientific knowledge to reduce consequences of deforestation.</li> </ul>	<p>Quiz Poster making. OTBA.</p>
October	<p>7. Conservation of plants and animals (continuation)</p> <p>5. Coal and petroleum</p>	<ul style="list-style-type: none"> <li>Defines the importance of wildlife sanctuaries, national parks, biosphere reserves.</li> <li>Understands natural resources</li> <li>Classifies resources as renewable and non renewable.</li> <li>Explains process of carbonisation.</li> </ul>	<p>Group discussion</p> <p>Discussion Lecturing Hands on learning</p>	<ul style="list-style-type: none"> <li>Make efforts to protect the environment by making judicious use of resources.</li> </ul>	<p>Oral tests. Test paper.</p>
	5. Coal and petroleum	<ul style="list-style-type: none"> <li>Able to understand the refining of petroleum.</li> <li>Explains natural gas and its limitations</li> </ul>	<p>Smart class.</p> <p>Discussion.</p>	<ul style="list-style-type: none"> <li>Make efforts to conserve energy and make judicious use of limited resources.</li> </ul>	<p>Puzzles Drawing Test paper.</p>

NOVEMBER	16. light	<ul style="list-style-type: none"> <li>Explains laws of reflection.</li> <li>Differentiates regular and irregular reflection.</li> <li>Multiple reflection.</li> <li>Understands the parts of eye.</li> </ul>	Sharing real life experiences. Demonstrations. Experiments.	<ul style="list-style-type: none"> <li>Inculcate self respect.</li> <li>Love towards the needy people.</li> <li>Understands the importance of care of eye.</li> </ul>	Solving puzzles. Test paper.
	8. cell - structure and functions	<ul style="list-style-type: none"> <li>Explains the parts of the cell.</li> <li>Comparing the plant and animal cell</li> </ul>	Lab activity. Smart class. Discussion.	<ul style="list-style-type: none"> <li>Prepares slides of cell.</li> </ul>	Oral tests
DECEMBER	6. Combustion and flame.	<ul style="list-style-type: none"> <li>Explains conditions required for combustion.</li> <li>Understands methods to extinguish fire.</li> <li>Able to draw the structure of flame and identifies the use of different zones.</li> </ul>	<ul style="list-style-type: none"> <li>Lecturing</li> <li>Smart class</li> <li>Discussion</li> </ul>	<ul style="list-style-type: none"> <li>Acquires the ability to evaluate alternative explanation.</li> <li>Able to think critically.</li> </ul>	<ul style="list-style-type: none"> <li>Assignmer</li> <li>One senter answer.</li> </ul>
	9.Reproduction in animals.	<ul style="list-style-type: none"> <li>Explains modes of reproduction.</li> <li>Understands Male and female reproductive organs.</li> <li>Differentiates viviparous and oviparous animals.</li> </ul>	<ul style="list-style-type: none"> <li>Drawing</li> <li>Identification</li> <li>Explanation</li> </ul>	<ul style="list-style-type: none"> <li>Imbibe the values of concern for life ,gender equity.</li> </ul>	<ul style="list-style-type: none"> <li>Labelling t</li> <li>Question c</li> </ul>
JANUARY	14. Chemical effects of electric current	<ul style="list-style-type: none"> <li>Classifies conductors and insulators</li> <li>Explains chemical effect of electric current</li> <li>Understands application of</li> </ul>	Experiment . Observation Explanation .	<ul style="list-style-type: none"> <li>Discusses and appreciates scientific discoveries.</li> <li>Exhibits creativity in</li> </ul>	Oral test

	<p>15. Some Natural phenomena</p> <p>16. Reaching the age of adolescence</p>	<p>electroplating.</p> <ul style="list-style-type: none"> <li>Explains working of electroplating.</li> <li>Describes lightning and its safety measures.</li> <li>Describes about earth quakes and list out its safety measures</li> </ul> <ul style="list-style-type: none"> <li>Understands adolescence and puberty.</li> <li>Role of hormones in reproductive function.</li> <li>Sex determination.</li> </ul>	<ul style="list-style-type: none"> <li>Sharing real life experiences.</li> <li>Discussion</li> <li>Interactive lecturing.</li> <li>Smart class.</li> </ul> <ul style="list-style-type: none"> <li>Sharing real life experiences.</li> <li>Discussion</li> <li>Interactive lecturing.</li> <li>Smart class.</li> </ul>	<p>designing.</p> <ul style="list-style-type: none"> <li>Exhibits value of freedom from fear and prejudices.</li> <li>Constructs models.</li> </ul> <ul style="list-style-type: none"> <li>Applies learning of scientific concepts in challenging myths regarding adolescence.</li> </ul>	<p>Assignments</p> <p>Model making</p> <p>Test paper</p> <ul style="list-style-type: none"> <li>Debate</li> <li>oral test</li> </ul>
FEBRUARY	<p>17. Stars and solar system.</p> <p>18. pollution of air and water.</p>	<ul style="list-style-type: none"> <li>Understands celestial objects.</li> </ul> <ul style="list-style-type: none"> <li>Identifies cause of air pollution.</li> <li>Explains green house effect and global warming.</li> </ul>	<ul style="list-style-type: none"> <li>Interactive lecturing.</li> <li>Smart class.</li> <li>Seminar.</li> </ul> <ul style="list-style-type: none"> <li>Hands on learning</li> </ul>	<ul style="list-style-type: none"> <li>Appreciates scientific discoveries.</li> </ul> <ul style="list-style-type: none"> <li>Make effort to protect environment</li> </ul>	<ul style="list-style-type: none"> <li>Chart map</li> <li>Quiz</li> </ul> <ul style="list-style-type: none"> <li>Oral test</li> </ul>

			<ul style="list-style-type: none"> <li>Seminar.</li> </ul>		<ul style="list-style-type: none"> <li>Quiz</li> </ul>
MARCH	<p><b>Revision</b></p> <p style="text-align: center;"><b>And</b></p> <p style="text-align: center;"><b>Annual examination</b></p>				

**Subject: History**

MONTH	TOPICS	LEARNING OBJECTIVE	PEDAGOGICAL PRACTICES	LEARNING OUTCOMES
JUNE	1.How, When and Where	<ul style="list-style-type: none"> <li>*To understand the changing culture of the subcontinent.</li> <li>*To know the major development within the time frame.</li> </ul>	<ul style="list-style-type: none"> <li>* case study.</li> <li>* map work.</li> <li>*group discussion.</li> </ul>	<ul style="list-style-type: none"> <li>* Inculcate time value.</li> <li>*Understood the importance of past.</li> </ul>
JULY	2.From Trade to Territory	<ul style="list-style-type: none"> <li>*To understand the story of a trading company becoming a political power.</li> <li>*To know the consolidation of British power.</li> </ul>	<ul style="list-style-type: none"> <li>* debates.</li> <li>*assignment.</li> <li>*map</li> </ul>	<ul style="list-style-type: none"> <li>*Inculcate defensive power.</li> <li>*Developed the feeling of nationalism.</li> </ul>

AUGUST	3.Ruling the countryside	*To understand the changes in the society.  *To know how the new government disrupted the rhythm of peasants life.	*discussion.  * criticism.  * time line.  * map.	*Inculcate defending nature against oppressive rule.  *Able to observe the current system of revenue collection.
SEPTEMBER	4.When people rebel	*To understand how revolts originate and spread.  *Analyse the changes in colonial rule after 1857.	*map.  *debate.  *discussion.  *project.	* Inculcate patriotic feeling.  *Able to respect the national leaders.
OCTOBER	5.Weavers, iron smelters and factory owners	*To understand the impact of British rule in various sector.  *To know the industrial expansion in India.	*report writing.  *group discussion.  *flow chart.	*Able to set up industries or factories.  *Develop critical thinking.
NOVEMBER	6.Women caste and reform	*To understand why reformers focussed on women.  *To know about the laws which affect women	*debates.  *survey.  *project.  *power point presentation.	*Able to react on social evils.  *Inculcate respect towards women..

DECEMBER	7.The making of the national movement	*Understand the major development in national movement.	*project *field trip	*Developed love towards our culture and tradition
FEBRUARY	8. India after independence	*To understand how our constitution is formed *To know about the formation of states	*role play	*Inculcate patriotic feeling

**Subject: Geography**

MONTH	TOPICS	LEARNING OBJECTIVE	PEDAGOGICAL PRACTICES	LEARNING OUTCOMES
JUNE	1. Resources	*To know the meaning of resources and their variety.  *To understand its location and distribution.	*poster making  *chart  *group discussion  *flow chart	*Understood the needs of conservation of natural resources.
JULY	2. Land ,soil, water natural vegetation and wildlife resources	*To understand the importance of resources in our life.  *To know about the conservation of resources.	*map  *model making  *role play  *debate	*Able to harvest the rain water.  *Inculcate love and care towards nature.





AUGUST	3. Minerals	*to know about various types of minerals.	*map *scrapbook *poster making	*Able to save minerals for future.
SEPTEMBER	4. Power Resources	*To understand conventional and non-conventional resources	*debate *field trip	*Understood the reason for power shortage  *Understood the importance of solar energy
OCTOBER	5. Human Resources	*To understand the role of human resources in development of nation	*graph *survey *population pyramid	*Inculcate self-respect and self esteem
NOVEMBER	6. Agriculture	*To learn about various types of farming.  *To understand the agriculture development.	*project *presentation *map	*Inculcate an interest to do farming.
JANUARY	7. Industry	* To understand the importance of industries.  *To identify the different types of industries.	*chart making *map *project	*Inculcate an interest to start pollution free industries.

**Subject: Politics**

MONTH	TOPICS	LEARNING OBJECTIVE	PEDAGOGICAL PRACTICES	LEARNING OUTCOMES
JUNE	1. Indian constitution	*To develop and understand the rule of law and our involvement.  *To understand the Indian constitution.	*debate  *poster making  *role play	*Inculcate a respectful attitude towards our constitution
JULY	2. Understanding secularism	*To understand Indian secularism  *To compare Indian and US secularism	*PowerPoint presentation  *chart making	*Inculcate an attitude to respect all religion
AUGUST	3. Why do we need a parliament	*To understand why India choose a parliamentary form of government  *To analyse the role of	*map  *album making	*Developed the leadership quality



		people in the government		
OCTOBER	4. Understanding laws	*To understand how new laws come about?  *To know unpopular and controversial laws	*flow chart  *debate	*Inculcate an attitude to obey the rules
NOVEMBER	5. Judiciary	*To understand the role of judiciary  *To understand the structure of courts in India	*mock court  Project  *interview	*Developed a skill to analyse an argument and to take an appropriate decision
DECEMBER	6. Understanding marginalisation	*To know about the life of Adivasi  *To analyse the mining centres in Adivasi areas	*power point presentation  *project	*Understood the life of different type of people living in India

**Subject: Maths**











		<p>Students will be able to Understand</p> <ul style="list-style-type: none"> <li>• bar graph</li> <li>• Pie graph</li> <li>• Histogram</li> <li>• Line graph and linear graph</li> </ul>	<ul style="list-style-type: none"> <li>• demonstration</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• Different types of graphs</li> </ul>	<ul style="list-style-type: none"> <li>• Class edge activity</li> <li>• Pen paper test</li> </ul>
SEPTEMBER	<p>6.Squares and square roots</p> <p>7.Cubes and cube roots</p> <p>10.Visualising solid shapes</p>	<p>Students will be able to understand</p> <ul style="list-style-type: none"> <li>• Square of a number</li> <li>• Properties of square number</li> <li>• Finding square roots</li> <li>• Square roots of decimal numbers.</li> </ul> <p>Students will be able to Understand</p> <ul style="list-style-type: none"> <li>• Cube of a number</li> <li>• Cube root of a number</li> </ul> <p>Students will be able identify</p> <ul style="list-style-type: none"> <li>• Shapes .</li> <li>• Nets of different shapes</li> </ul>	<ul style="list-style-type: none"> <li>• Interactive lecture</li> <li>• Pose questions.</li> <li>• Realia.</li> <li>• Interactive lecture</li> <li>• Pose questions</li> <li>• Discussion.</li> <li>• Seminar</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>• Square of a number</li> <li>• Square root of numbers.</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Find Cube of a number</li> <li>• Find cube root of a number</li> <li>• Solve problems related to real life.</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>• Visualise 3-dimensional shapes.</li> <li>• Identify and draw different views of a solid</li> <li>• Read and draw maps</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions.</li> <li>• Pen paper test</li> <li>• Oral questions</li> <li>• Pen paper test</li> <li>• Class edge activity</li> </ul>



OCTOBER		<b>REVISION AND HALF YEARLY EXAMINATION</b>			
NOVEMBER	4. Practical geometry  8. Comparing Quantities.	Students will be able to <ul style="list-style-type: none"> <li>Construct quadrilaterals given any five of its elements</li> </ul> Students will be able to <ul style="list-style-type: none"> <li>Understand increasing and decreasing percent</li> <li>Profit and profit%</li> <li>Loss and loss%</li> <li>Sales tax , VAT</li> <li>Compound interest.</li> <li>Applications of compound interest</li> </ul>	Smart class  <ul style="list-style-type: none"> <li>Interactive lecture</li> <li>Smart class</li> </ul>	Students will be able to <ul style="list-style-type: none"> <li>Construct quadrilaterals</li> </ul> Students will be able to <ul style="list-style-type: none"> <li>Define percentage</li> <li>Apply percentage to compare quantities</li> <li>Solve problems involving percentage change</li> <li>Calculate sales tax and value added tax</li> <li>Understand the difference between simple and compound interest.</li> </ul>	<ul style="list-style-type: none"> <li>Pen paper test</li> </ul> <ul style="list-style-type: none"> <li>Pen paper test</li> <li>Smart class</li> <li>Oral questions</li> <li>Puzzles</li> </ul>
DECEMBER	9. Algebraic Expression and Identities  14. Factorisation	Students will be able to <ul style="list-style-type: none"> <li>Add and subtract polynomials</li> <li>Multiply polynomials</li> <li>Divide polynomials by monomial and binomial</li> <li>Use identities to find products</li> <li>Use identities to solve numerical problems</li> </ul>	<ul style="list-style-type: none"> <li>Smart class</li> <li>Pose questions</li> <li>Interactive lecture</li> <li>Discussion</li> </ul> <ul style="list-style-type: none"> <li>Smart class</li> <li>Interactive lecture</li> </ul>	Students will be able to <ul style="list-style-type: none"> <li>add , subtract ,multiply and divide polynomials.</li> <li>Use identities to find products</li> </ul>	<ul style="list-style-type: none"> <li>Oral questions</li> <li>Class edge activity</li> <li>Pen paper test</li> </ul> <ul style="list-style-type: none"> <li>Oral questions</li> </ul>

		<p>Students will be able to</p> <ul style="list-style-type: none"> <li>Express an algebraic expression as a product of its factors</li> <li>Factorise algebraic expression by taking common factors, by regrouping terms, by using identities.</li> <li>Divide a polynomial by another polynomial</li> </ul>	<ul style="list-style-type: none"> <li>Discussion</li> <li>Pose questions</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>Algebraic expression</li> <li>Identities.</li> <li>Factorisation of polynomials using identities.</li> </ul>	<ul style="list-style-type: none"> <li>Class edge activity</li> <li>Pen paper test</li> </ul>
JANUARY	<p>13. Direct and inverse proportion</p> <p>11.Mensuration.</p>	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>Define proportions.</li> <li>Direct and inverse proportions.</li> <li>Its applications</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>Understand area of polygons</li> <li>Understand the areas of regular and irregular polygons by dividing them into regular polygons.</li> </ul>	<ul style="list-style-type: none"> <li>Smart class</li> <li>Interactive lecture</li> <li>Discussion</li> <li>Pose questions</li> </ul> <ul style="list-style-type: none"> <li>Smart class</li> <li>Interactive lecture</li> <li>Discussion</li> <li>Pose questions</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>Inverse and direct variations.</li> <li>Problems based on variations.</li> <li>The relation between time and work; time and distance.</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>Understand the concept of area of polygons</li> <li>Find area of regular and irregular polygons.</li> </ul>	<ul style="list-style-type: none"> <li>Oral questions</li> <li>Class edge activity</li> <li>Pen paper test.</li> </ul> <ul style="list-style-type: none"> <li>Oral questions</li> <li>Class edge activity</li> <li>Pen paper test</li> </ul>

FEBRUARY	16.Playing with numbers	Students will be able to <ul style="list-style-type: none"> <li>• Understand games with numbers</li> <li>• Understand the concept behind the tests of divisibility.</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Interactive lecture</li> <li>• project</li> </ul>	Students will be able to realise <ul style="list-style-type: none"> <li>• Express two-and three digit numbers in generalised form</li> </ul> The concept of working puzzles	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Class edge activity</li> <li>• Puzzles.</li> </ul>
MARCH		<b>REVISION</b> <b>ANNUAL</b> <b>EXAMINATION</b>			

**Subject: Malayalam**





Month	Topic	Short term outcome	Pedagogical Practice	Long term outcome
June	1. സാമ്രാജ്യ സാഹിത്യം	പാരായണം കവിപരിചയം	പാരായണം , പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു.	സത്യസന്ധമായ സാഹിത്യം നിലനിർത്തൽ
	2. അമ്മമ്മ	കഥാസ്വഭാവം , കഥാകൃത്തിനെ അറിയൽ	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു.	പ്രതിബന്ധങ്ങളെ ധൈര്യപൂർവ്വം നേരിടണം
July	3. എണ്ണ നിറച്ച കുരണ്ടി	കഥാസ്വഭാവം , കഥാകൃത്തിനെ അറിയൽ	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു.	പ്രത്യാശയാണ് ജീവിതത്തെ മുന്നോട്ട് നയിക്കുന്നത് എന്ന തിരിച്ചറിവ്
	4. എളിൻ ഗുരുനാഥൻ	കവിപരിചയം ഗാന്ധിജിയുടെ മഹത്വം അറിയുന്നതിന്	വായന , മഹത്വ വചനങ്ങൾ കണ്ടെത്തുന്നു	ഗാന്ധിജിയോടുള്ള ബഹുമാനം വളരുന്നതിന്
August	5. വേദം	ആസ്വാദനം , നിരീക്ഷണ പാടവം , വ്യാകരണം	പാരായണം , പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു.	വിശപ്പിന്റെ പ്രാധാന്യം അറിഞ്ഞ് ജീവിക്കുന്നതിന്
September	6. ഇലഞ്ഞിത്തറ മേളം	ലേഖനവായന , ആസ്വാദന ശേഷി വളർത്തുന്നതിന്	വായന , പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു.	കലകളെക്കുറിച്ചുള്ള അവബോധം ഉണ്ടാകുന്നതിന്



October	7. കളിയച്ചൻ ജനിക്കുന്നു	കവിതയുടെ ആവിർഭാവത്തെക്കുറിച്ച് അറിയുന്നതിന് , ലേഖനവായന	വായന കവിപരിചയം	രചനകളിലുള്ള താല്പര്യം വളർത്തുന്നതിന്
November	8. കിട്ടും പണമെങ്കിലിപ്പോൾ	പാരായണം , കവി പരിചയം ,	അനുയോജ്യമായ താളത്തിൽ അവതരിപ്പിക്കുന്നു	മൂല്യബോധത്തോടെ വളരാൻ കഴിയുന്നതിന്
	9. ധർമ്മിഷ്ഠനായ രാധേയൻ	കഥാവായന , പുരാണ കഥകൾ അറിയുന്നതിന്	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ വായന	ധർമ്മത്തിൽ അധിഷ്ഠിതമായി ജീവിക്കുന്നതിന്
December	10. പെരുന്തച്ചൻ	കവിത ഊണത്തിൽ ചൊല്ലുന്നു , കവിയെ പരിചയപ്പെടുന്നു	പാരായണം പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	വാർധക്യത്തിലും ധൈര്യത്തോടെ ജീവിക്കുന്നതിന്
January	11. കുപ്പായം	കഥാസ്വരണം , കഥാകൃത്തിനെ അറിയൽ	പാഠഭാഗ വായന പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	കുടുംബബന്ധങ്ങളുടെ ഊഷ്മളത മനസ്സിലാക്കുന്നതിന്
February	12. മുകൾകങ്ങൾ	കവികളെ പരിചയപ്പെടുന്നു	വായന , മുകൾകങ്ങളെക്കുറിച്ച് അറിയുന്നു	രചനാതാല്പര്യം വളർത്തുന്നതിന്
March	Revision	Annual Exam		

**Annual Pedagogical Plan 2020-2021**

**Class: IX**

**Subject: Science**

Month	Chapter	Short term learning outcomes	Pedagogical strategies	Assessment strategies	Long term learning outcomes
June	1) Matter in our surroundings.	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Define matter</li> <li>➤ Differentiate between different states of matter based on the arrangement of molecules.</li> <li>➤ Recognise, the state of matter in terms of shape, volume and density.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interactive lecturing.</li> <li>➤ Group discussion.</li> <li>➤ Smart class</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral test</li> <li>➤ Assignment</li> <li>➤ Pen and paper test.</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Different states of matter</li> <li>➤ Shape, volume and density of matter.</li> </ul>
	15) Improvement in food resources.	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Explore plants and animals as sources of food.</li> <li>➤ Discuss with peers not to waste food.</li> <li>➤ Classify, crops as kharif and rabi crops ,and its examples.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interactive lecturing</li> <li>➤ Pose question</li> <li>➤ Seminar</li> <li>➤ Smart class</li> <li>➤ Group discussion</li> <li>➤ Project</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral test</li> <li>➤ Pen and paper test.</li> <li>➤ Listing</li> <li>➤ One minute</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ What are the sources of food</li> <li>➤ Facts about kharif and rabi crops</li> </ul>

	8) Motion	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Compare the types of motion and list out examples for the same.</li> <li>➤ Plot and interpret graphs.</li> <li>➤ Derive equation of motion using graphical method.</li> <li>➤ Solve problems.</li> </ul>	<p>Team learning</p> <ul style="list-style-type: none"> <li>➤ Inquiry based learning</li> <li>➤ Demonstration</li> <li>➤ Narration</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral test</li> <li>➤ Assignment</li> <li>➤ Pen and paper test.</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Interpretations with the graphs.</li> <li>➤ Applicability of equations of motions.</li> </ul>
July	2) Is matter around us pure.	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Differentiate materials as elements, compounds and mixtures based on their properties.</li> <li>➤ Establish the relation and bring out the differences between heterogenous and homogenous mixtures, colloids and suspensions.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lecture cum discussion.</li> <li>➤ Demonstration of experiments.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral test</li> <li>➤ Assessment based on question cards.</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Differentiate elements, compounds and mixtures.</li> <li>➤ How to classify heterogenous and homogenous mixture according to their properties.</li> </ul>
	5) The fundamental unit of life.	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Prepare slides of plant cell and describe the microscopic features.</li> <li>➤ Distinguish between plant cell and animal cell.</li> <li>➤ Appreciate the role of each organelle in different life processes.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Realia</li> <li>➤ Demonstration</li> <li>➤ Interactive lecturing</li> <li>➤ Concept map</li> <li>➤ Narrative technique.</li> <li>➤ Smart class.</li> <li>➤ Pose question</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral test</li> <li>➤ Mind mapping</li> <li>➤ Memory matrix</li> <li>➤ Pen and paper test.</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Difference between plant and animal cells.</li> <li>➤ How to compare different cells</li> </ul>

	9) Force and laws of motion.	<ul style="list-style-type: none"> <li>➤ Compare the size of different cells such as ostrich's egg, nerve cell, bacteria etc.</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Differentiate between balanced and unbalanced force.</li> <li>➤ Derive Newton's first law of motion.</li> <li>➤ Understand the concept of mass and inertia.</li> <li>➤ Formulate equation for second law of motion</li> <li>➤ Analyse third law of motion and its examples.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lecture cum discussion</li> <li>➤ Narrative technique</li> <li>➤ Smart class</li> <li>➤ Factual approach</li> <li>➤ Brain storming questions.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral test</li> <li>➤ Assignment</li> <li>➤ Pen and paper test.</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ About balanced and unbalanced forces around us.</li> <li>➤ The application of Newton's laws in our day to day life.</li> </ul>
August	2)Is matter around us pure(continuation)	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Apply the acquired knowledge of different methods of separating the components of mixtures in daily life situations.</li> <li>➤ Analyse, the implication of physical and chemical changes.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Demonstration.</li> <li>➤ Interactive lectures.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Peer evaluation</li> <li>➤ Oral test.</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ How to prepare mixtures, solution, suspension</li> <li>➤ To correlate separation techniques.</li> </ul>
	6)Tissues	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Explore different kinds of plant and animal tissues.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Realia</li> <li>➤ Demonstration</li> <li>➤ Interactive lecturing</li> </ul>	<ul style="list-style-type: none"> <li>➤ Flow chart</li> <li>➤ Quiz.</li> <li>➤ Memory matrix</li> <li>➤ Pen and paper test.</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Parenchyma, collenchyma and sclerenchyma</li> </ul>



	<p>9) Force and laws of motion. (continuation)</p> <p>10) Gravitation</p>	<ul style="list-style-type: none"> <li>➤ Classify tissues according to their structure and function.</li> <li>➤ Develop the skill of observation and drawing.</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Identify the term momentum.</li> <li>➤ Derive mathematical expression for conservation of momentum.</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Identify the presence of centripetal force in nature.</li> <li>➤ Explore the universal law of gravitation</li> <li>➤ Formulate an equation for gravitational force.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Concept map</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Interactive lecturing</li> <li>➤ Study buddy groups</li> <li>➤ Demonstration.</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Visualisation</li> <li>➤ Study buddy groups</li> <li>➤ Interactive lecturing</li> <li>➤ Narration</li> <li>➤ Historical method.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral test</li> <li>➤ Summarisation</li> <li>➤ Assignment</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Random questioning</li> <li>➤ Quiz</li> <li>➤ Pen and paper test.</li> </ul>	<p>tissues in plants</p> <ul style="list-style-type: none"> <li>➤ To improve their drawing skills</li> </ul> <p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ About momentum and its effects .</li> <li>➤ That momentum is conserved.</li> </ul> <p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ The importance of gravitational law.</li> <li>➤ The equation for gravitational force.</li> </ul>
September	10)Gravitation (continuation)	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand the importance of gravitational law.</li> <li>➤ Formulate an expression for free fall.</li> <li>➤ Compare between mass and weight.</li> <li>➤ Collect more ideas about pressure.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interactive lecturing</li> <li>➤ Demonstration of experiments.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral test</li> <li>➤ Pen and paper test</li> <li>➤ Individualised laboratory method</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ The difference between mass and weight.</li> <li>➤ The idea behind Archimedes' principle</li> </ul>

	<p>3)Atoms and molecules</p> <p>6)Tissues (continuation)</p>	<ul style="list-style-type: none"> <li>➤ Explain Archimedes' principle with its applications</li> <li>➤ Understand the relation between density and relative density.</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand the law of chemical combination.</li> <li>➤ Verify the laws through experiments.</li> <li>➤ Establish the relationship and bring out the differences between molecules of elements.</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Distinguish between different plant and animal tissues.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interactive lecturing</li> <li>➤ Demonstration of experiments.</li> </ul> <ul style="list-style-type: none"> <li>➤ Concept map</li> <li>➤ Pose question</li> <li>➤ Classification</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral test</li> <li>➤ Pen and paper test</li> <li>➤ Peer evaluation</li> <li>➤ Assignment</li> </ul> <ul style="list-style-type: none"> <li>➤ Quiz</li> <li>➤ Pen and paper test</li> </ul>	<ul style="list-style-type: none"> <li>➤ The relation b/w density &amp; relative density.</li> </ul> <p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ How to prepare slides.</li> <li>➤ Develop an awareness about complex plant and animal body.</li> </ul>
October	3) Atoms and molecules. (continuation)	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand law to write chemical formulae.</li> <li>➤ Ideas of molecular mass and mole concepts.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interactive lecturing</li> <li>➤ Narrative techniques</li> </ul>	<ul style="list-style-type: none"> <li>➤ Quiz</li> <li>➤ Preparing model worksheet</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ .</li> </ul>

	7) Diversity in living organisms.	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Explore the diversity of living things.</li> <li>➤ Describe how and why organisms are hierarchically classified based on the evolutionary relationships.</li> <li>➤ Compare the features of different kingdoms.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Realia</li> <li>➤ Flow chart</li> <li>➤ Concept map</li> <li>➤ Smart class</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral test</li> <li>➤ Mind mapping</li> <li>➤ Worksheet</li> <li>➤ Pen and paper test</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Biological diversity.</li> <li>➤ Hierarchy of categories</li> <li>➤ Classify salient features of animals</li> </ul>
November	4) Structure of atom.	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Comprehend the different models of atom.</li> <li>➤ Appreciate the ideas of different models of atom put forth by various scientists.</li> <li>➤ Reason out why an atom is neutral.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interactive lecturing</li> <li>➤ Peer group discussion</li> <li>➤ Activity based learning.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Assignment.</li> <li>➤ Oral test.</li> <li>➤ Activity</li> <li>➤ Pen and paper test</li> <li>➤ Flow chart</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Different models of atoms.</li> <li>➤ To compare atoms, molecules, elements and ions.</li> </ul>
	11) Work and energy	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ List out examples for work done.</li> <li>➤ Derive expression for work done.</li> <li>➤ Explore the different types of energy present in nature.</li> <li>➤ Sort out examples for the same.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Smart class.</li> <li>➤ Problem solving based learning.</li> <li>➤ Lab activities</li> <li>➤ Discussions</li> </ul>	<ul style="list-style-type: none"> <li>➤ Random questions</li> <li>➤ Pen and paper test</li> <li>➤ Laboratory method</li> <li>➤ Project.</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ The examples for work done in our daily life.</li> <li>➤ About different types of energy sources in nature.</li> </ul>

	13) Why do we fall ill ?	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Classify diseases as acute and chronic diseases.</li> <li>➤ Describe diseases as infectious and non-infectious diseases.</li> <li>➤ Explore different types of transmission of diseases.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Smart class.</li> <li>➤ Pose questions</li> <li>➤ Interactive learning</li> <li>➤ Group discussions</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral questions</li> <li>➤ Pen paper test</li> <li>➤ Puzzles</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ About health and diseases.</li> <li>➤ How to prevent diseases</li> <li>➤ About immunisation programmes</li> </ul>
December	11) Work and energy (continuation)	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Formulate expression for potential energy and kinetic energy.</li> <li>➤ Describe the law of conservation of energy.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Problem solving</li> <li>➤ Lab activities</li> <li>➤ Assignment</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral test.</li> <li>➤ Pen paper test</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Potential and kinetic energy.</li> <li>➤ That energy is conserved.</li> </ul>
	4) Structure of atom (continuation)	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand the distribution of electron in various shells or orbits.</li> <li>➤ Analyse the implication of electronic configuration.</li> <li>➤ Establish the relationship in forming different types of bonds.</li> <li>➤ Distinguish between atomic number and mass number</li> <li>➤ Analyse the implication of atomic number and</li> </ul>	<ul style="list-style-type: none"> <li>➤ Problem solving</li> <li>➤ Smart class</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral test</li> <li>➤ Pen paper test</li> <li>➤ puzzles</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ About electronic configuration.</li> <li>➤ How to make a chart of periodic table.</li> <li>➤ To use periodic table in the field of chemistry.</li> </ul>

		<p>mass number in isotopes and isobars.</p> <ul style="list-style-type: none"> <li>➤ Correlate the application of isotopes and isobars in life situations.</li> </ul>			
January	<p>12)Sound</p> <p>14)Natural resources</p>	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Collect more information regarding sound.</li> <li>➤ Discuss the characteristics of sound.</li> <li>➤ Understand the laws of reflection of sound.</li> <li>➤ Differentiate between transverse wave and longitudinal waves.</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Appreciate different factors of earth which supports life on earth.</li> <li>➤ Develop sensitivity for the natural resources in the environment.</li> <li>➤ Point out the issues related to the depletion pollution of the natural resources.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interactive learning.</li> <li>➤ Team learning.</li> <li>➤ Activity based learning.</li> <li>➤ Seminar</li> <li>➤ Interactive learning</li> <li>➤ Smart class</li> <li>➤ Charts</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral question.</li> <li>➤ Assignment</li> <li>➤ Activity</li> <li>➤ Pen paper test.</li> <li>➤ Flow chart</li> <li>➤ Oral test</li> <li>➤ Pen paper test</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ The characteristics of sound.</li> <li>➤ About transverse and longitudinal waves.</li> </ul> <p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ More about earth and its natural resources .</li> <li>➤ Importance of natural resources in their lives and to love our mother earth.</li> </ul>

February	12)Sound (continuation)	Students will be able to <ul style="list-style-type: none"> <li>➤ Explore the application of ultra sound</li> <li>➤ Understand the sound transmission through human ear.</li> <li>➤ Solve problem.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Smart class</li> <li>➤ Concept map</li> <li>➤ Problem solving</li> <li>➤ Lab activities</li> </ul>	<ul style="list-style-type: none"> <li>➤ Puzzle</li> <li>➤ Pen paper test</li> <li>➤ Oral test.</li> </ul>	Students will be able to realise <ul style="list-style-type: none"> <li>➤ Applications of ultra sound waves.</li> <li>➤ Transmission of sound in human ear.</li> </ul>
	14)Natural resources (continuation)	Students will be able to <ul style="list-style-type: none"> <li>➤ Explore the minerals that are rich in soil.</li> <li>➤ Understand more about biochemical changes.</li> <li>➤ More about ozone layer.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Smart class</li> <li>➤ Chart</li> <li>➤ Seminar</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral test.</li> <li>➤ Pen paper test.</li> <li>➤ Quiz</li> </ul>	Students will be able to realise <ul style="list-style-type: none"> <li>➤ About different types of pollution</li> <li>➤ About holes in ozone layer and its damages.</li> <li>➤ How to save our mother earth.</li> </ul>
March		Revision and Annual examination			

**Subject: Social Science**

MONTH	LESSON	LEARNING OBJECTIVES	PEDAGOGICAL PRACTICES	LEARNING OUTCOMES
JUNE	French Revolution	Familiarize with the names of people involved the different types of ideas that inspired the revolution the wider forces that shaped it. Know the use of written oral and visual material to recover the history of revolution.	Visual aid  Pictures related To French revolution Timeline preparation	<u>Students will be able to</u>  Identify the characters . Analyze the factors conducive for the revolution. Admire and appreciate the role of philosophers. Highlight the role of women. Glorify the legacy of revolution.
	India Size and location	Identify the location of India in the Indian sub continent.	Map work – Location of India.  Socio-Cultural exchanges with other countries-visual aids.	Locate latitudes and longitudes. Socio-cultural exchanges with other countries. Inquire why there is a time lag of 2h from Gujarat to Arunachal Pradesh.



JULY	What is Democracy? Why Democracy?	Develop conceptual skills of defining democracy. Understand how different historical processes and forces have promoted democracy. Develop a sophisticated defense of democracy against common prejudices.	Discussion-benefits of democracy  Chart preparation Features of democracy.	Develop conceptual skills of defining democracy. Compare democratic and non-democratic forms of Govt.
	Physical features of India.	Understand the major land form features and the underlying geological structure, their association with various rocks and minerals as well as nature of soil types.	Map work, chart work, assignment.	Familiarize with the major land forms of India. Comprehend the concept of different relief features and their formation. Identify relief features from their local environment.
	The story of village Palampure	Familiarize with basic economic concepts through an imaginary story of village.	Picture collection-modern techniques of farming. Assignment- non-farming activities.	Elaborate basic concepts of Factors of production yield, surplus etc through an imaginary village. Find out the importance of modern means of farming. Analyse the importance of non-farming activities in

AUGUST	Socialism in Europe and Russian Revolution	Explore the history of socialism through the study of Russian revolution . Familiarize with different types of ideas that inspired the revolution.	Time line – social movement between 1905 – 1917 Assignment- 1 <sup>st</sup> world war Visual aid.	the village.  Explore the need for modernization of Russia like Britain and France. Admire and Appreciate the efforts made by the Russian in modernizing their empire by ending old regime . Compare the socio –economic and political system of old regime of 1789 France that of Russia in 1917 . Collect the names and ideas of the people involved in revolution. Comprehend the impact of socialism on Russia and on other countries. Highlight legacy of the Russian revolution.
	Constitutional design	Understand the process of constitution making. Develop respect for the constitution and appreciation for constitutional values. Recognize constitution as a dynamic and living document.	Quiz Chart making- preamble of Indian constitution	Identify the process of establishment of Indian democracy and constitution making.





NOVEMBER	Nazism and Rise of Hitler	Discuss the critical significance of Nazism in shaping the politics of modern world. Get familiarized with the speeches and writings of Nazi leaders.	Comparative study of Nazism with the present day politics.	electoral politics . To recognize the significance of election.  Familiarize with the names of people involved and different types of ideas that inspired the revolution. Explore the factors highlighting the Germany as an anarchist and dictatorial regime. Comprehend the life of Hitler as a dictator. Review and have a comparative study of the Nazi outlook with the present day political scenario.
	Natural vegetation and wild life	Explain the nature of diverse flora and fauna as well as their distribution. Develop concern about the need to protect the biodiversity of our country.	Collect the pictures and details of endangered and extinct species.	Identify the factors that influence the plant growth. Interpret co-relation between climate and vegetation. Comprehend how changes in climate affect natural

DECEMBER	Poverty as a challenge facing India	Understand poverty as a challenge. Identify vulnerable group and interstate disparities. Appreciate the initiatives of the govt. to alleviate poverty.	Assignment-poverty alleviation programmes.	vegetation. Collect the information about migratory birds, Suggest measures for conservation of flora and fauna.
	Working of institutions	Get an overview of Central Govt. structures. Identify the role of Parliament . Distinguish between permanent and political executive. Understand the parliamentary of executive accountability to the legislature. Understanding working of Judiciary.	Seminar-role of President, Prime minister and council of ministers.	Recognize the poverty is a multidimensional concept. List that indicators of poverty and explain the meaning of poverty line. Compare poverty estimates across the countries in the world. Find out measures taken by the Govt, to reduce poverty.
JANUARY	Forest society and colonialism	Discuss the social and cultural world of cultural world of forest communities through the study of specific revolts.	Assignment-harmful effect of deforestation	Make a list of direct and indirect benefits of forests.



		<p>Understand how oral traditions can be used to explore revolt .</p>	<p>Poster making- afforestation.</p>	<p>Analyze the harmful effect of deforestation and find out the need for afforestation. Explain policies of the British related to exploitation of the Indian forest. Forest people and products to their advantage. Explain the causes and results of the Bastar rebellion. Similarities between Java and Bastar (colonial management of the forest.</p>
	Population	<p>Analyze the uneven nature of population and distribution. Show concern about the large size of population. Identify the different occupations of people and explain various factors of population change. Explain various dimensions of population policy to understand the needs of adolescents group.</p>	<p>Make a population pyramid. Poster making – measures of control population</p>	<p>Develop an overview of country's population and their uneven distribution. Reasons for variations in population distribution. Comprehend population composition based on age, sex, occupational</p>

FEBRUARY	Democratic rights	Recognize the need for rights in one's life. Understand the availability of rights in a democratic Govt. Identify and be able to comprehend the fundamental rights given by the Indian constitution to its citizens. Create awareness regarding the process of safe guards rights.	Debate- fundamental rights are protected by the constitution agree or disagree.	structure and literacy. Recognize and discuss social issues. Be sensitive towards growing imbalances of the sex ratio.  To develop citizens awareness to their rights. Analyze and appreciate the fundamental rights. Recognize the ways in which these rights are exercised and protected by the constitution. Visualize the function of judicial courts and Human Rights Commission.
	Food Security in India	Understand the concepts of food security. Appreciate and analyze the role of Govt. in ensuring food security.	Visual aid -PDS	Interpret the terms availability, accessibility and affordability. Discuss the circumstances in which Govt, decided to move self-sufficiency in food security.

MARCH	Disaster management	Project and Assignment only  REVISION AND EXAM		Assess the role of Govt, in ensuring food supply. Analyze the PDS and role of co-operatives.
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**Subject: Maths**

Month	Topic	Learning Objectives	Pedagogical practices	Learning outcomes	Assessment strategies
June	<b>1. Number system</b>	<p>Students will be able to understand</p> <ul style="list-style-type: none"> <li>• Irrational Numbers</li> <li>• Real Numbers</li> <li>• Decimal Expansion</li> <li>• Operations on Real Numbers</li> <li>• Laws of Exponents for real numbers</li> </ul>	<p><b>Smart class, Pose questions Discussion</b></p> <p><b>Interactive lecture Smart class</b></p> <p><b>Realia Group discussion</b></p>	<p><b>Students will be able to realise irrational numbers and their decimal expansion, representing real numbers on number line , operations on real numbers and laws exponents for real numbers</b></p>	<ul style="list-style-type: none"> <li>• Oral Questions</li> <li>• Pen paper test</li> </ul>
	<b>2. Polynomials</b>	<p>Students will be able to develop</p> <ul style="list-style-type: none"> <li>• Polynomials in one variable</li> <li>• Zeroes of a polynomial</li> <li>• Remainder Theorem</li> <li>• Factorisation of polynomials</li> <li>• Algebraic Identities</li> </ul>		<p><b>Students will be able to realise polynomials in one variable , zeroes of a polynomial remainder theorem ,factorisation and identities</b></p>	<ul style="list-style-type: none"> <li>• Quiz</li> <li>• Puzzles</li> <li>Pen papa test</li> </ul>
	<b>4. Co-ordinate geometry</b>	<p>Students will be able to identify</p> <ul style="list-style-type: none"> <li>• Cartecian System</li> <li>• Plotting a point in the plane if its co-ordinates are given</li> </ul>		<p><b>Students will be able to realise Cartesian system and plotting a point in the plane if its co-ordinates are given</b></p>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Mind mapping</li> </ul>

July	3. Linear equations in two variables	<p>Students will be able to recognise</p> <ul style="list-style-type: none"> <li>Linear equations</li> <li>Solution of linear equations</li> <li>Graph of linear in two variables</li> <li>Equation of line parallel to x- axis and y- axis</li> </ul>	Smart class Concept map Project	Students will be able to realise linear equation and their solutions and graph of linear equations in two variables	<ul style="list-style-type: none"> <li>Mind mapping</li> <li>Quiz</li> <li>Pen paper test</li> </ul>
	5.Introduction to Euclid's geometry	<p>Students will be able to understand</p> <ul style="list-style-type: none"> <li>Euclid's definition</li> <li>Axioms and postulates</li> <li>Equivalent versions of Euclid's fifth postulates</li> </ul>	Smart class Mnemonics	Students will be able to realise Euclid's definition, axioms and postulates and equivalent versions of Euclid's fifth postulates	<ul style="list-style-type: none"> <li>Classedged activity</li> <li>worksheet</li> </ul>
	12. Heron's Formula	<p>To make the students to aware about</p> <ul style="list-style-type: none"> <li>Rea of triangle using Heron's formula</li> <li>Applications of Heron's formula in finding areas of Quadrilateral</li> </ul>	Interactive lecture Smart class	Students will be able to realise area of triangle using Heron's formula and its applications	<ul style="list-style-type: none"> <li>Puzzles</li> <li>Pen paper test</li> </ul>

August	6. Lines and Angles	<p>To make the students to understand about</p> <ul style="list-style-type: none"> <li>Basic terms and definitions</li> <li>Parallel lines and transversal lines</li> <li>Angle sum property of</li> </ul>	Smart class Concept map Realia	Students will be able to realise basic terms and definitions of triangles and parallel and non-parallel lines and angle sum property of triangle	<ul style="list-style-type: none"> <li>Mind mapping</li> <li>Quiz</li> <li>Sum</li> </ul>
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	7. Triangles	<p>triangles</p> <p>Students will be able to analyse</p> <ul style="list-style-type: none"> <li>• Congruence of triangles</li> <li>• Properties of triangles</li> <li>• Some criteria for congruence of triangles</li> <li>• Inequalities in a triangle</li> </ul>	Smart class discussion	Students will be able to realise congruence , criteria for congruence , properties of triangle and inequalities in a triangle	<ul style="list-style-type: none"> <li>• Classedged activity</li> <li>• Quiz</li> <li>• puzzles</li> </ul>
September	11. Constructions	<p>Students will be able to develop</p> <ul style="list-style-type: none"> <li>• basic constructions</li> <li>• constructions of triangles</li> </ul>	Smart class concept map	Students will be able to realise the basic construction and construction of triangles	<ul style="list-style-type: none"> <li>• Quiz</li> <li>• Mind mapping</li> </ul>
	15. Probability	<p>Students will be able to understand</p> <ul style="list-style-type: none"> <li>• probability</li> <li>• experimental approach</li> </ul>	pose questions discussion	Students will be able to realise the experimental approach of probability	<ul style="list-style-type: none"> <li>• Pen paper test</li> </ul>
October	8. Quadrilaterals	<p>Students will be able to analyse</p> <ul style="list-style-type: none"> <li>• Angle sum property of a quadrilateral</li> <li>• Types of quadrilaterals</li> <li>• Properties of parallelogram</li> <li>• Mid- point theorem</li> </ul>	Smart class Concept map discussion	Students will be able to realise the angle sum property of quadrilateral, types of quadrilateral and the mid-point theorem	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Pen papa test</li> </ul>

November	9. Areas of parallelogram and triangles	<p>Students will be able to classify</p> <ul style="list-style-type: none"> <li>Figures on the same base and between the same parallels</li> <li>Parallelograms on the same base and between the same parallels</li> <li>Triangles on the same base and between the same parallels</li> </ul>	<p>Smart class Discussion Concept map</p> <p>Smart class Interactive lecture</p>	<p>Students will be able to realise the figures on the same base and between the same parallels, parallelogram on the same base and between the same parallels and triangles on the same base and between the same parallels</p>	<ul style="list-style-type: none"> <li>Oral questions</li> <li>Quiz</li> <li>Mind mapping</li> </ul>
	13. Surface area and volumes	<p>Students will be able to understand</p> <ul style="list-style-type: none"> <li>Surface area of a cube and a cuboid</li> <li>Surface area of a right circular cylinder, cone and sphere</li> <li>Volume of right circular cylinder, cone and sphere</li> </ul>		<p>Students will be able to realise surface area of cube, cuboid, cylinder, cone sphere and volume of cube, cuboid, cylinder, cone and sphere</p>	<ul style="list-style-type: none"> <li>Oral questions</li> <li>Quiz</li> <li>Work sheet</li> </ul>

December	10. Circles	<p>Students will be able to recognise</p> <ul style="list-style-type: none"> <li>• Terms related to circles</li> <li>• Angle subtended by a chord at a point</li> <li>• Perpendicular from the centre to a chord</li> <li>• Circle through three points</li> <li>• Equal chords and their distances from the centre</li> <li>• Cyclic quadrilateral</li> </ul>	Smart class Concept map	<p>Students will be able to realise the terms related to circles, angle subtended by a chord at a point, perpendicular from the centre to a chord, circle through three points, equal chords and their distances from the centre, angle subtended by the arc of a circle and cyclic quadrilaterals</p>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Quiz</li> <li>• Classed ge activity</li> </ul>
	14. Statistics	<p>Students will be able to understand</p> <ul style="list-style-type: none"> <li>• Collection of data</li> <li>• Presentation of data</li> <li>• Graphical representation of data</li> <li>• Measures of central tendency</li> </ul>		<p>Students will be able to realise collection of data, presentation of data, graphical representation of data and measures of central tendency</p>	<ul style="list-style-type: none"> <li>• Puzzles</li> <li>• quiz</li> </ul>
January		<b>REVISION AND PT- 3 EXAMINATION</b>			
February		<b>MODEL EXAMINATION</b>			
MARCH		<b>ANNUAL EXAMINATION</b>			

**Subject: Malayalam**



Month	Topic	Short term outcome	Pedagogical Practice	Long term outcome
June	1. വിശ്വാംഭിപ്രായം	പാരായണം, ആധുനിക കവിത്രയത്തെക്കുറിച്ച് അറിയുന്നു	കുറിപ്പ് തയ്യാറാക്കൽ പാരായണം, പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു.	നന്മയുള്ളവരാവാൻ കഴിയുന്നു
	2. കത്തുകാർ	നോവലിസ്റ്റിനെ പരിചയപ്പെടുന്നു അക്ഷരസ്പർശത്തോടെ വായിക്കുന്നു	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു.	പ്രകൃതിയെ നിരീക്ഷിക്കാനും പഠിക്കാനും പ്രാപ്തരാകുന്നു
July	3. കാളകൾ	കവിതാപാരായണം കവിപരിചയം	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു.	അധ്വാനത്തിന്റെ മഹത്വത്തെക്കുറിച്ച് മനസ്സിലാക്കുന്നു
	4. കുപ്പിവളകൾ	കഥാസ്വരണം, കഥാകൃത്തിനെ പരിചയപ്പെടൽ	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	വൈകല്യമുള്ളവരെ പരിഗണിക്കാൻ കഴിയുന്നു
August	5. അമ്പാടിയിലേക്ക്	പ്രാചീനകവിത്രയത്തെക്കുറിച്ച് അറിയുന്നു	പാരായണം പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	ഭക്തിപ്രസ്ഥാനത്തെക്കുറിച്ചും കൃഷ്ണഗാഥയെക്കുറിച്ചും അറിവുള്ളവരാകുന്നു.
September	6. കൊടിയേറ്റം	വായന, അടൂർ സിനിമകളെ അറിയൽ	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു.	സിനിമയുടെ സാഹിത്യമായ തിരക്കഥയെക്കുറിച്ച് അറിയുന്നു



October	7. ആശാൻ എന്ന മാസി	വായന ,ലേഖകനെ അറിയൽ	പാഠാനുബന്ധപ്രവർത്തനങ്ങൾ	ആശാനെക്കുറിച്ച് അറിയുന്നു
November	8.നാലിത്തർപ്പുവ്	കവിതാപാരായണം കവിപരിചയം	അനുയോജ്യമായ താളത്തിൽ അവതരിപ്പിക്കുന്നു	ഇതിഹാസങ്ങളെക്കുറിച്ച് അറിയുന്നു
December	9. തേൻ വരിക്ക	വായന കഥാകൃത്തിനെ അറിയൽ	നിരീക്ഷണക്കുറിപ്പ് തയ്യാറാക്കൽ	പ്രകൃതിസ്നേഹം വളരുന്നു
January	10. സഫലമിയാത്ര	കവിത ഇല്ലാത്തതിൽ ചൊല്ലുന്നു . കവിയെ പരിചയപ്പെടുന്നു	പാരായണം, പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	ശുഭാപ്തി വിശ്വാസമുള്ളവരായിത്തീരുന്നു
February	തേജസിയായ വാഴമി	സ്ഥലിവിവേകാനുഭവം ക്കുറിച്ചും അദ്ദേഹത്തിന്റെ പ്രവർത്തനങ്ങളെക്കുറിച്ചും അറിയുന്നതിന്	പാഠശാല വായന, പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	സാമൂഹ്യപ്രവർത്തനങ്ങളിൽ താല്പര്യം ജനിക്കുന്നു .
March	പുനരാവർത്തനം Annual Exam			

**Annual Pedagogical Plan 2020-2021**

**Class X**

**Subject: Science**

Month	Chapter	Short term learning outcomes	Pedagogical strategies	Assessment strategies	Long term learning outcomes
JUNE	Electricity	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>a) Understands electric current and circuit potential and potential difference</li> <li>b) Ohms Law</li> <li>c) Factors affecting resistance</li> <li>d) Combination of resistors</li> </ul>	<p>Experiment Problem solving Smart class</p>	<p>Assignment Redrawing the electric circuit Oral test</p>	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>a) Interprets the circuit diagrams and correct the fault in circuits</li> <li>b) Develop scientific thinking</li> </ul>
	Chemical reactions and equations	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>a) Understand chemical equations</li> <li>b) Types of chemical reaction</li> <li>c) Oxidation and reduction</li> </ul>	<p>Observation Identification Discussion Demonstration</p>	<p>Oral test Problem solving Writing chemical reaction</p>	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>a) Write chemical equation with the help of symbols and formula of compounds</li> <li>b) Understand observation in the activities</li> </ul>

			Smart class		<p>carried out and draw conclusion based on the types of chemical reaction</p> <p>c) Identify reducing and oxidising agent</p>
	Life processes	<p>Students will be able to</p> <p>a) Identify basic concept of nutrition, respiration, transportation, and excretion in animals and plants</p>			<p>Students will be able to</p> <p>a) Identify vital life processes</p> <p>b) Describe the different modes of nutrition</p>
	Control and co-ordination	<p>Students will be able to learn</p> <p>a) Control and co-ordination in animals and</p>	<p>Discussion</p> <p>Role play</p> <p>Audio-visual aid</p>	<p>Chart making</p> <p>Oral test</p> <p>Pen-paper test</p>	<p>Students will be able to</p> <p>a) Recognize the</p>



August	Acids, bases and salts	a) Acid , base properties	Discussion Observation Smart class	Puzzle solving Oral test Assignment	Students will be able to a) Improve scientific attitudes b) Define acids, band bases with examples c) Classify them as strong and weak d) Identify pH importance in our day to-day life and different salts importance also
	PERIODIC TEST –I  Continuation of Magnetic effect	Students will able to a) Defines electromagnetic induction b) Discuss working of electric generator c) Discuss domestic house hold	Interactive lecturing Group discussion Smart class	Drawing and labelling MCQ Oral test	Students will be able to a) Appreciates the scientific discoveries b) Construct models

		connections			
	Metals and Non-metals	<p>Students will able to</p> <ul style="list-style-type: none"> <li>a) Define metals , non-metals and metalloids</li> <li>b) Understand physical and chemical properties of metals and non-metals</li> </ul>	<p>Interactive lecturing</p> <p>Discussion</p> <p>Smart class</p>	<p>Oral test</p> <p>Problem solving</p>	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>a) Analyse the properties of metals and non-metals and their uses in our daily life</li> <li>b)Scientific observation</li> </ul>
	Our environment	<p>Students will able to learn</p> <ul style="list-style-type: none"> <li>a) Ecosystem, environmental problems , ozone depletion, waste production and their solution</li> </ul>	<p>Discussion</p> <p>Demonstration</p>	<p>Chart making</p> <p>Pen-paper test</p>	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>a) Analyse reasons for ozone depletion</li> <li>b)Interpret management of garbage</li> <li>c) Classify the various components and their inter-relationships in an</li> </ul>
		Students will able to			

September	Sources of energy	a) Differentiate conventional and non-conventional sources of energy b) Understand the advantages and dis-advantages of various energy  Students will able to a) Understand the properties of ionic compounds b) Explain the process of corrosion and conditions with preventive measures	Discussion Seminar Smartclass	Drawing Concept maps Oral test	ecosystem
	Continuation of Metals and non-metals	Students will able to a) Characterize the human reproductive organs b) Types of fertilisation in animals			Students will be able to a) Makes effort to protect energy resources and applies their scientific knowledge to reduce wastages of energy  Students will be able to a) Make preventive measures of corrosion b) Analyse the uses of ionic compounds  Students will be able to a) Learn about functioning of



October	How do organisms reproduce	<p>Students will able to</p> <ul style="list-style-type: none"> <li>a) Understands- reflection of light, laws of reflection, Mirror formula</li> <li>b) Image formation by spherical mirrors</li> <li>c) Sign conventions</li> <li>d)</li> </ul> <p>PERIODIC TEST-II</p>	Group discussion Smart class	Labelling Pen-paper test	<p>the various organs in the male and female reproductive systems</p> <ul style="list-style-type: none"> <li>b) Understand the process of fertilisation</li> <li>c) Various contraceptive methods</li> </ul>
	Light-Reflection	<ul style="list-style-type: none"> <li>d) Refraction of light</li> <li>e) Determine refractive index of medium</li> <li>f) Image formation by lenses</li> <li>g) Lens formula and sign conventions</li> </ul>	Experiment Discussion Drawing figures	Oral test Assignment Pen-paper test	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>a) Applies the scientific concept in problem solving</li> <li>b) Able to think critically</li> </ul>
	Refraction	<p>Students will able to</p> <ul style="list-style-type: none"> <li>a) Understand carbon and its alloys</li> <li>b) Covalent compounds</li> </ul>	Interactive lecturing, drawing figures	Practical based MCQ Assignment	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>a) Applies the scientific concept in problem</li> </ul>

		<p>c) Isotopes</p> <p>Students will able to</p> <p>a) Conservation and judicious use of natural resources</p> <p>b) People participation of conservation of natural resources</p>	<p>Experiment</p> <p>Problem solving</p>	<p>Pen-paper test</p>	<p>solving</p> <p>b) Able to think critically</p>
	Carbon and its compounds		<p>Problem solving</p> <p>Quiz</p> <p>Hands of learning</p> <p>Smart class</p>	<p>Oral test</p> <p>Problem solving</p>	<p>Students will be able to</p> <p>a) Analyse the importance of carbon compounds in our life</p> <p>b) Improve scientific observation</p>
	Management of natural resources	<p>a) Understand and explain chemical reactions of hydrocarbons</p> <p>b) Esterification, saponification, dehydration of ethanol</p> <p>c) Soap and detergents</p>	<p>Discussion</p> <p>Smart class</p>	<p>Oral test</p> <p>Assignment</p> <p>Chart making</p>	<p>Students will be able to</p> <p>a) Know to take steps to conserve natural resources</p> <p>b) Awareness about population</p> <p>c) Need of conservation of fossil fuels</p>

November	Continuation of Carbon and its compounds	<p>Students will able to</p> <ul style="list-style-type: none"> <li>a) Learn Laws of inheritance of traits</li> <li>b) Sex determination</li> <li>c) Evolution and classification</li> <li>d) Fossils and human evolution</li> </ul>	<p>Observation Discussion Lecturing Smart class</p>	<p>Oral test Problem solving</p>	<p>Students will be able know</p> <ul style="list-style-type: none"> <li>a) Working principle of the soap and detergents</li> <li>b) Aware reactions of hydro carbons</li> </ul>
	Heredity and Evolution	<p>Students will able to</p> <ul style="list-style-type: none"> <li>a) Realise the structure of eye and its defects of vision</li> <li>b) Refraction of light through prism</li> <li>c) Dispersion and scattering of light</li> </ul>			<p>Students will be able to know</p> <ul style="list-style-type: none"> <li>a) Mendel's Law of inheritance</li> <li>b) Aware of their predecessors and successors</li> </ul>
	Human eye and colourful world	<ul style="list-style-type: none"> <li>a) Explain different laws related to periodic table</li> <li>b) Know Mendeleev's Periodic Table and Modern Periodic Table</li> </ul>			<ul style="list-style-type: none"> <li>a) Exhibits value of co-operation</li> <li>b) Acquires the knowledge of importance of eye</li> </ul>
December			Drawing figures, experiment, hands on	Quiz	

	Periodic classification of elements	c) difference Understand the arrangements and their properties of different elements	learning Discussion  Demonstration Smart class Lecturing Observation	Assignment Puzzle solving  Cross word puzzle Pen-paper test Listing	a) Understand periodic table and elements arrangements
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January	PERIODIC TEST III				
February	Revision- Model exam				
March	Annual Examination				

**Subject: Social Science**

Month	Topic	Learning objective	Pedagogical Practices	Learning Outcome
June	<b>1. Nationalism In Europe</b> <ul style="list-style-type: none"> <li>The French Revolution</li> <li>Napoleonic Code</li> <li>Liberal Nationalism</li> <li>The age of Revolution(1830-1845)</li> <li>The making of Germany</li> <li>Unification of Italy</li> <li>The strange case of Britain</li> <li>Visualizing Nations</li> </ul>	<ul style="list-style-type: none"> <li>Understand the way the idea of nationalism emerged.</li> <li>To identify the functions of nation states.</li> </ul>	<ul style="list-style-type: none"> <li>Deductive method</li> <li>Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>Analyze the impact of the French Revolution on other European nations</li> <li>Learn about the unification of Germany and Italy</li> </ul>
	<b>2. The story of development</b> <ul style="list-style-type: none"> <li>What development promises</li> <li>Income and other goals</li> <li>How to compare different</li> </ul>	Understand the importance of quality of life and sustainable development	<ul style="list-style-type: none"> <li>Discussion method</li> <li>Activity method</li> </ul>	<ul style="list-style-type: none"> <li>Compare the levels of development of different countries</li> <li>Examine the criteria to assess the development of regions</li> </ul>

	<ul style="list-style-type: none"> <li>• Countries</li> <li>• Public facilities</li> <li>• Sustainability of development</li> </ul>			
July	<b>1. Power Sharing</b> <ul style="list-style-type: none"> <li>• Case studies of Belgium and Sri Lanka</li> <li>• Why power sharing is desirable?</li> </ul>	Familiarize with Centrality of Power sharing in a Democracy	<ul style="list-style-type: none"> <li>• Explanation technique</li> <li>• Questioning technique</li> </ul>	<ul style="list-style-type: none"> <li>• Elaborate the meaning and advantages of power sharing</li> <li>• Know about the ethnic composition of Sri Lanka and Belgium</li> </ul>
	<b>2. Resource and Development</b> <ul style="list-style-type: none"> <li>• Development of resources</li> <li>• Resource planning</li> <li>• Land utilization</li> <li>• Land degradation</li> <li>• Conservation</li> <li>• Soil as a resource</li> </ul>	Understand the value of resources and need for their judicious utilization and conservation	<ul style="list-style-type: none"> <li>• Discussion method</li> <li>• Demonstration method</li> </ul>	<ul style="list-style-type: none"> <li>• Examine the Land use pattern of India</li> <li>• Define a resource</li> </ul>
	<b>3. Federalism</b> <ul style="list-style-type: none"> <li>• What is Federalism</li> <li>• What makes India a Federal Country?</li> <li>• Decentralization of India</li> </ul>	<ul style="list-style-type: none"> <li>• Analyze Federal provisions and institutions</li> <li>• Explain decentralization in rural and urban areas</li> </ul>	<ul style="list-style-type: none"> <li>• Inductive method</li> <li>• Discovery method</li> </ul>	<ul style="list-style-type: none"> <li>• Mention 3 tiers of Local Government</li> <li>• Explain key features of Federalism</li> </ul>
August	<b>1. Nationalism in India</b> <ul style="list-style-type: none"> <li>• First world war</li> <li>• Khilafat and non co-operation</li> <li>• Towards civil</li> </ul>	<ul style="list-style-type: none"> <li>• Analyze the nature of the diverse social movements of the time</li> <li>• Appreciate ideas</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture method</li> <li>• Inductive method</li> </ul>	<ul style="list-style-type: none"> <li>• Trace the origin and growth of Nationalism in India</li> <li>• Recognize the causes for the sense of</li> </ul>

	disobedience <ul style="list-style-type: none"> <li>• Sense of collective belonging</li> </ul>	promoting pan India belonging		collective belonging
	<b>2. Forest and wild life</b> <ul style="list-style-type: none"> <li>• Bio-diversity</li> <li>• Flora and Fauna of India</li> </ul>		Open Text book method	
	<b>3. Water resources</b> Multipurpose river project and integrated water resource management			
	<b>4. Sectors of Indian economy</b> <ul style="list-style-type: none"> <li>• Comparing the 3 sectors</li> <li>• Primary, Secondary and Tertiary Sectors in India</li> <li>• Sectors in terms of ownership (public and private)</li> </ul>	<ul style="list-style-type: none"> <li>• Identifying the major employment generating sectors</li> <li>• Reason out the Government investment in different sectors of economy</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture method</li> <li>• Deductive method</li> </ul>	<ul style="list-style-type: none"> <li>• Identify the differences between different sectors of our economy</li> <li>• Understand the rising importance of the tertiary sector</li> <li>• Examine the objective NREGA</li> </ul>
September	<b>1. Money and Credit</b> <ul style="list-style-type: none"> <li>• Money as a medium of exchange</li> <li>• Loan activities of banks</li> <li>• Terms of Credit</li> <li>• Formal and informal sector credit in India</li> </ul>	<ul style="list-style-type: none"> <li>• Understanding money as economic concept</li> <li>• Analyze the role of financial institutions from the point of view of day to day life</li> </ul>	<ul style="list-style-type: none"> <li>• Interactive method</li> <li>• Group discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Limitations of Barter system</li> <li>• Recognize the modern forms of money</li> </ul>
	<b>2. Democracy and Diversity</b> <ul style="list-style-type: none"> <li>• Difference, similarities and</li> </ul>	Analyze the relationship between social division and political competition with reference to Indian	Lecturing method	<ul style="list-style-type: none"> <li>• Know the origin of social differences</li> <li>• Differentiate between overlapping</li> </ul>



	<div>divisions</div> <ul style="list-style-type: none"> <li>Politics of social division</li> </ul>	situation		and cross cutting differences
October	<b>1. Agriculture</b> <ul style="list-style-type: none"> <li>Types of farming</li> <li>Cropping pattern</li> <li>Technological and institutional reform</li> <li>Impact of Globalization on Agriculture</li> </ul>	<ul style="list-style-type: none"> <li>Explain the importance of agriculture in national economy</li> <li>Identify various types of cropping patterns in India</li> </ul>	<ul style="list-style-type: none"> <li>Inductive method</li> <li>Smart Class</li> </ul>	<ul style="list-style-type: none"> <li>List the cropping seasons in India</li> <li>Describe types of farming practiced in India</li> </ul>
	<b>2. Gender, Religion and Caste</b> <ul style="list-style-type: none"> <li>Gender and politics</li> <li>Caste and politics</li> <li>Religion, communalism and politics</li> </ul>	<ul style="list-style-type: none"> <li>Develop a gender perspective on politics</li> <li>Recognize the enabling and disabling effects of caste in politics</li> </ul>	<ul style="list-style-type: none"> <li>Role play</li> <li>Group discussion</li> </ul>	<ul style="list-style-type: none"> <li>Learn about women's representation in Indian politics</li> <li>Appreciate the term secular state</li> </ul>
	<b>3. Popular struggle and movement</b> Popular struggle in Nepal and Bolivia	Understand the vital role of people struggle in the expansion of Democracy	Project method	<ul style="list-style-type: none"> <li>Analyze the movement of Democracy in Nepal</li> <li>Recognize pressure groups</li> </ul>
November	<b>1. Print Culture and the modern world</b> <ul style="list-style-type: none"> <li>First printed book</li> <li>The print revolution and its impact</li> <li>India and the world of print</li> <li>Print and censorship</li> </ul>	<ul style="list-style-type: none"> <li>Identify the link between print culture and the circulation of ideas</li> <li>Familiarize with news paper debates on important events and issues in the past</li> </ul>	<ul style="list-style-type: none"> <li>Questioning technique</li> <li>Activity method</li> <li>Discussion method</li> </ul>	Establish the link between print culture and circulation of ideas examining the impact of print revolution in India

	<b>2. Mineral Resources</b> <ul style="list-style-type: none"> <li>What is mineral?</li> <li>Ferrous and non-ferrous mineral</li> <li>Conservation of mineral</li> <li>Energy resource</li> </ul>	<ul style="list-style-type: none"> <li>Explain the importance of mineral and energy resource in India</li> <li>Feel the need for their judicious utilization</li> </ul>	Experimentation Deductive method Map study	<ul style="list-style-type: none"> <li>Know about the different modes of occurrences of minerals</li> <li>Distinguish between metallic and metallic mineral</li> <li>Express ideas for conserving energy</li> </ul>
	<b>3. Political parties</b> Why do we need political parties? How many parties should we have? National parties and state parties	<ul style="list-style-type: none"> <li>Analyze party system in Democracy</li> <li>Introduction to major political parties</li> </ul>	<ul style="list-style-type: none"> <li>Explanation on functions of political parties</li> <li>Group discussion</li> </ul>	<ul style="list-style-type: none"> <li>Understand the meaning of political parties</li> <li>Know functions of political party</li> <li>Compare the different party system in India</li> </ul>
December	<b>1. The age of industrialization</b> <ul style="list-style-type: none"> <li>Before the industrial revolution</li> <li>Hand labour and steam power</li> <li>Industrialization in the colonies</li> <li>Factories coming up</li> </ul>	<ul style="list-style-type: none"> <li>Familiarize with proto-industrial phase and early factory system</li> <li>Enable them to understand industrialization in the colonies with reference to textile industry</li> </ul>	<ul style="list-style-type: none"> <li>Discovery method</li> <li>Experimental method</li> </ul>	<ul style="list-style-type: none"> <li>Assess the situation in England before the industrial revolution</li> <li>Understand pace of industrial change in Britain</li> <li>Understand the peculiarity of industrial growth</li> </ul>
	<b>2. Outcomes of Democracy</b> <ul style="list-style-type: none"> <li>How do we assess Democracy's outcome?</li> <li>Economic growth and development</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate the functioning of Democracies in comparison to alternative forms of Government</li> <li>Distinguish between</li> </ul>	<ul style="list-style-type: none"> <li>Activity method</li> <li>Smart Class</li> </ul>	<ul style="list-style-type: none"> <li>Expect Democracy to be accountable, responsive and legitimate</li> <li>Analyze the role of Democracy in the economic growth and</li> </ul>

	<ul style="list-style-type: none"> <li>Accommodation of social diversity</li> <li>Dignity and freedom of citizen</li> </ul>	sources of strength and weakness of Democracy		development
	<b>3. Manufacturing industries</b> <ul style="list-style-type: none"> <li>Importance of manufacturing</li> <li>Contribution of industry to national economy</li> <li>Classification of Industries</li> <li>Control of environmental degradation</li> </ul>	<ul style="list-style-type: none"> <li>Bring out the importance of industries in national economy</li> <li>Discuss the need for a planned industrial development</li> </ul>	<ul style="list-style-type: none"> <li>Discussion</li> <li>Debate</li> <li>Lecturing</li> </ul>	<ul style="list-style-type: none"> <li>List the factors contributing into the location of industries</li> <li>Understand the classification of industries-agro based and mineral based</li> <li>Relate between industrial development and increase in pollution</li> </ul>
January	<b>1. Globalization and Indian economy</b> <ul style="list-style-type: none"> <li>Interlinking production across countries</li> <li>Foreign trade and investment</li> <li>What is Globalization?</li> <li>World Trade Organization</li> </ul>	Explain the working of Global economic phenomenon	<ul style="list-style-type: none"> <li>Problem solving method</li> <li>Inductive method</li> </ul>	<ul style="list-style-type: none"> <li>Describe the integration of market by foreign trade</li> <li>Assess the impact of globalization on India</li> <li>Discuss the impact of liberalization</li> </ul>
	<b>2. Challenges to Democracy</b> <ul style="list-style-type: none"> <li>Foundational challenge</li> <li>Challenge of Expansion</li> <li>Challenge of</li> </ul>	<ul style="list-style-type: none"> <li>Thinking about challenges</li> <li>Promote an active and participatory citizen</li> </ul>	Project method	<ul style="list-style-type: none"> <li>Identified the challenges faced by democratic countries</li> <li>Express your ideas in redefining democracy</li> </ul>

	deepening			
	<b>3. Consumer rights</b> Consumer movements in India RTI Act COPRA Right to seek redressal Act	<ul style="list-style-type: none"> <li>Gets familiarized with the rights and duties as a consumer</li> <li>Legal measures available to protect from being exploited</li> </ul>	Project method	Enhance awareness of consumer rights Understand legal provisions for redressal
	<b>4. Life lines of National economy</b> <ul style="list-style-type: none"> <li>Transport-Railway, Roadways, Pipelines and waterways</li> <li>Communication</li> <li>International trade</li> </ul>	<ul style="list-style-type: none"> <li>Explain the importance of transport and communication in the ever shrinking world</li> <li>Understand the role of trade and tourism in the economical development of a country</li> </ul>	Group discussion Activity method Map study	<ul style="list-style-type: none"> <li>List the different means of communication-personal and mass</li> <li>Understand the importance of transport, communication and trade for the country's economical growth</li> <li>Appreciate the tourism industry in India</li> </ul>

**Subject: Maths**

Month	Topic	Learning Objectives	Pedagogical practices	Learning outcomes	Assessment strategies
June	1.Real Numbers.	<p>Students will be able to understand</p> <ul style="list-style-type: none"> <li>• Euclid's Division lemma ,</li> <li>• Fundamental Theorem of Arithmetic</li> <li>• Revisiting Irrational Numbers</li> <li>• Rational Numbers and their Decimal Expansion etc.</li> </ul>	Smart class, interactive lecture ,pose questions	Students will be able to realise Euclid's Division Lemma and fundamental theorem of arithmetic and Irrational n Numbers	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Pen paper test</li> </ul>
	2.Polynomials	<p>Students will be able to recognise</p> <ul style="list-style-type: none"> <li>• Geometrical meaning of the zeroes of a polynomial</li> <li>• Relations between zeroes and coefficient of a polynomial</li> <li>• Division Algorithm for polynomials</li> </ul>	Assignment, smart class	Students will be able to realise geometrical meaning of the zeroes of a polynomial and division algorithm for polynomials	<ul style="list-style-type: none"> <li>• Pen paper test</li> <li>• Quiz</li> <li>• Worksheet</li> </ul>
	3. Pair of linear Equations in two variables	<p>Students will be able to develop</p> <ul style="list-style-type: none"> <li>• Pair of linear equation in two variables</li> <li>• Graphical method of solution of a pair of linear equations</li> <li>• Algebraic</li> </ul>	Concept map , smart class	Students will be able to understand graphical and algebraic methods of solving a pair of	<ul style="list-style-type: none"> <li>• Pen paper test</li> <li>• Classed ge activity</li> </ul>

		<p>method of solving a pair of linear equations</p> <ul style="list-style-type: none"> <li>Equations reducible to a pair of linear equations in two variables</li> </ul>		linear equations in two variables	
July	<p>4. Quadratic Equations</p> <p>5. Arithmetic Progression</p>	<p>Students will be able to understand</p> <ul style="list-style-type: none"> <li>Quadratic equations by factorisation</li> <li>Solution of a quadratic equation by completing the square</li> <li>Nature of roots</li> </ul> <p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>Arithmetic progression</li> <li>Nth term of an AP</li> <li>Sum of n terms of an AP</li> </ul> <p><b>REVISION AND PT- 1 EXAM</b></p>	<p>smart class,realia</p> <p>Smartclass, concept map</p>	<p>Students will be able to realise the factorisation and solution of quadratic equations and natureof roots of a quadratic equation</p> <p>Students will be able to realise nth term and sum of n terms of an AP</p>	<ul style="list-style-type: none"> <li>Pen paper test</li> <li>Mind mapping</li> <li>Pen paper test</li> <li>Mind mapping</li> </ul>
August	6. Triangles	<p>Students will be able to recognise</p> <ul style="list-style-type: none"> <li>Similar triangles</li> <li>Similarity of figures</li> <li>Criteria for similarity of triangles</li> <li>Areas of similar triangles</li> <li>Pythagoras theorem</li> </ul>	Smart class, interactive lecture	<p>Students will be able to realise similarity of triangles , criteria for similarity of triangles , areas of similar triangles and Pythagoras theorem</p>	<ul style="list-style-type: none"> <li>Puzzles</li> <li>Pen paper test</li> </ul>

	7. Co-ordinate Geometry	<p>Students will be able to classify</p> <ul style="list-style-type: none"> <li>Distance Formula</li> <li>Section Formula</li> <li>Area of Triangles</li> </ul>	Classedage activity, Assignment	Students will be able to realise distance formula , section formula and area of triangles	<ul style="list-style-type: none"> <li>Penpaper test</li> <li>Oral questions</li> </ul>
September	<p>8. Introduction to Trigonometry</p> <p>9. Some Applications of Trigonometry</p>	<p>Students will be able to recognise</p> <ul style="list-style-type: none"> <li>Trigonometric Ratios</li> <li>Trigonometric ratios of some specific Angles</li> <li>Trigonometric ratios of complementary angles</li> <li>Trigonometric Identities</li> </ul> <p>Students will be able to analyse</p> <ul style="list-style-type: none"> <li>Introduction</li> <li>Heights and distances</li> </ul>	<p>Smart class, discussion, classedage activities</p> <p>Smart class, group discussion</p>	<p>Students will be able to realise trigonometric ratios , trigonometric ratios of some specific angles, complementary angles and trigonometric identities</p> <p>Students will be able to realise the heights and distances using trigonometric ratios</p>	<ul style="list-style-type: none"> <li>Pen paper test</li> <li>Quiz</li> <li>Group activity</li> <li>ork sheet</li> <li>Group discussion</li> </ul>

October	10. Circles	<p>To make the students to aware about</p> <ul style="list-style-type: none"> <li>Tangent to a circle</li> <li>Number of Tangents from a point on a circle</li> </ul> <p><i>REVISION AND PT-2 EXAM</i></p>	Smart Class, Discussion	Students will be able to realise tangent to a circle and number of tangents from a point on a circle	<ul style="list-style-type: none"> <li>Oral questions</li> <li>Pen paper test</li> </ul>
November	<p>11. Constructions</p> <p>12.Areas related to circles</p> <p>15. Probability</p>	<p>Students will be able to develop</p> <ul style="list-style-type: none"> <li>Division of a line segment</li> <li>Construction of Tangents to a circle</li> </ul> <p>Students will be able to understand</p> <ul style="list-style-type: none"> <li>Perimeter and area of a circle</li> <li>Areas of sector and segment of a circle</li> <li>Areas of combination of plane figures</li> </ul> <p>Students will be able to understand</p> <ul style="list-style-type: none"> <li>Probability –A theoretical approach</li> </ul>	<p>Smart class Concept map</p> <p>Smart class Discussion</p> <p>Interactive lecture, realia</p>	<p>Students will be able to realise the division of a line segment and construction of tangent</p> <p>Students will be able to realise the perimeter and area of a circle ,areas of sector and segment of a circle and areas of combination of plane figures</p>	<ul style="list-style-type: none"> <li>Mind mapping</li> <li>Pen paper test</li> <li>Classed ge activity</li> <li>Summarising</li> <li>Quiz</li> </ul>



December	13. Surface areas and volumes	<p>To make the students aware about</p> <ul style="list-style-type: none"> <li>• Surface areas of a combination of solids</li> <li>• Volume of combination of solids</li> <li>• Conversion of solid from one shape to another</li> <li>• Frustum of a cone</li> </ul>	Smart class ,realiaconcept map	Students will be able to realise the surface areas and volume of a combination of solids , conversion of solid from one shape to another and frustum of a cone	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Puzzles classed edge activity</li> </ul>
	14. Statistics	<p>Students will be able to develop</p> <ul style="list-style-type: none"> <li>• Mean of grouped data</li> <li>• Mode of grouped data</li> <li>• Median of grouped data</li> <li>• Graphical representation of cumulative frequency distribution</li> </ul>		Students will be able to realise the mean , median and mode of a grouped data and representation of cumulative frequency distribution	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• summerising</li> </ul>
January		<b>REVISION AND PT-3 EXAMINATION</b>			
February		<b>MODEL EXAMINATION</b>			
MARCH		<b>ANNUAL EXAMINATION</b>			

**Subject: Malayalam**



Month	Topic	Short term outcome	Pedagogical Practice	Long term outcome
June	1. ലക്ഷ്മണ സാമ്പനം	പാരായണം പ്രാചീനകവിത്രയത്തെക്കുറിച്ച് അറിയുന്നു	പാരായണം , പാരാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു.	ക്രോധം പരിത്യജിക്കണം എന്ന് മനസ്സിലാക്കുന്നു
	2. കടൽത്തീരത്ത്	കഥാസ്വാദനം , കഥാകൃത്തിനെ അറിയൽ	നാടകവാതരണം പാരാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു.	പിതൃസ്നേഹം തിരിച്ചറിയുന്നു
July	3. പ്രിയദർശനം	കവിത ചൊല്ലുന്നു സ്നേഹത്തെക്കുറിച്ച് അറിയുന്നു .	പാരാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു.	ആധ്യാത്മിക ദർശനത്തെക്കുറിച്ച് അറിയുന്നു
	4. യുദ്ധത്തിന്റെ പരിണാമം	വായന , നിരൂപണത്തെക്കുറിച്ച് അറിയുന്നു	സംവാദം	യുദ്ധം സർവ്വനാശകാരിണി ആണെന്ന് അറിയുന്നു
August	5. ഓണമുറ്റത്ത്	ആസ്വാദനം , നിരീക്ഷണ പാടവം , വ്യാകരണം വൈലോപ്പിള്ളിയെക്കുറിച്ച് അറിയുന്നു	നിരീക്ഷണക്കുറിപ്പ് തയ്യാറാക്കൽ	ഒരുമയുടെ മഹത്വം മനസ്സിലാക്കുന്നു

September	6. ആത്മാവിന്റെ വേളിപാടുകൾ	വായന ,മനുഷ്യജീവിതത്തിലെ അവസ്ഥകളെക്കുറിച്ച് അറിയുന്നതിന്	അന്യഭാഷാ കൃതികളുടെ വായന , പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു.	പ്രത്യാശയാണ് ജീവിതത്തെ മുന്നോട്ട് നയിക്കുന്നത് എന്ന തിരിച്ചറിവ്
October	7. പണയം	ദാരിദ്ര്യം ,മനുഷ്യരുടെ കഷ്ടപ്പാട് എന്നിവയെക്കുറിച്ച് അറിയുന്നതിന്	പാഠാനുബന്ധപ്രവർത്തനങ്ങൾ	പ്രിയപ്പെട്ട വസ്തുക്കളോടുള്ള ആത്മബന്ധത്തെ തിരിച്ചറിയുന്നു
November	8. അദ്ധമേധം	മനുഷ്യന്റെ സർഗ്ഗശേഷിയുടെ വിജയത്തെക്കുറിച്ച് അറിയുന്നതിന്  പാരായണം ,കവി പരിചയം	താരതമ്യ പഠനം അനുയോജ്യമായ താളത്തിൽ അവതരിപ്പിക്കുന്നു	സ്വന്തം സർഗ്ഗശേഷി തിരിച്ചറിയുന്നതിന്
	9. കൊച്ചുചക്കരച്ചി	ലേഖനവായന ,ആസ്വാദന ശേഷി വളർത്തുന്നതിന്	നിരീക്ഷണക്കുറിപ്പ് തയ്യാറാക്കൽ	പ്രകൃതിസ്നേഹി ആവുന്നതിന്
December	10. അമ്മയുടെ എഴുത്തുകൾ	ഭാഷാസ്പന്ദം കവിത ഈണത്തിൽ ചൊല്ലുന്നു . കവിയെ പരിചയപ്പെടുന്നു	പാരായണം പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	മാതാവിന്റെയും മാതൃഭാഷയുടെയും മഹത്വം മനസ്സിലാക്കുന്നു
January	11. ചട്ടമ്പി സ്വാമികൾ	ചട്ടമ്പിസ്വാമികളെക്കുറിച്ചും അദ്ദേഹത്തിന്റെ പ്രവർത്തനങ്ങളെക്കുറിച്ചും അറിയുന്നതിന്	പാഠഭാഗ വായന പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	സാമൂഹ്യപ്രവർത്തനങ്ങളിൽ ഏർപ്പെടുന്നതിന്
February	പുനരാവർത്തനം			
March	വാർഷികപ്പരീക്ഷ			

**Subject:English**

MONTH	TOPIC	SHORT TERM GOALS	PEDAGOGICAL PRACTICES	LONG – TERM GOALS LEARNING OUTCOME
JUNE	1. A letter to God 2. Dust of Snow  3. Fire & Ice  1. A long walk to freedom  The definite article – Homophones 1. A triumph of surgery 2. The thief 's story	Enable to understand Faith in God  The importance of nature in our life.  The importance of human emotions.  Value of freedom  Proper dealing How goodness corrects a teenager	Letter writing, Story writing  Speaking & listening Writing- formal letter  Letter writing, Story writing	At the end of the lesson students learned how to respect and protect nature.  Developed, kindness and love  Students glorify the value of freedom.  Recognize and developed good qualities among teenagers.
JULY	A tiger in the Zoo  Stories about flying 1. His first flight 2. Black aeroplane  The midnight visitor	Value of Freedom  The necessity of basic values  Value of true professionalism	Article writing Story writing, letter writing, paragraph writing  Collage work based on freedom	Understand the value of freedom  Realised the necessity of basic values.  Identified the value of true professionalism

AUGUST	<p>A question of trust</p> <p>Footprints without feet</p> <p>How to tell wild animals</p> <p>The ball</p>	<p>Value of trust in human relationship.</p> <p>The negative effect of Science</p> <p>Humour of animals.</p> <p>Pain of loss</p>	<p>Speaking &amp; Listening</p> <p>Writing articles.</p> <p>Letter writing.</p>	<p>Developed the quality of respect and trust in human relationship.</p> <p>Students understood the negative impact of science.</p> <p>The poem educates the students about wild animals.</p> <p>Through the poem the students understood the grief and pain of a boy who has lost his ball.</p>
SEPTEMBER	<p>From the diary of Anne Frank</p> <p>Amanda</p> <p>The making of a Scientist</p>	<p>Teacher student relationship</p> <p>How to cope up with the children's growing up</p> <p>Values that ensure human progress</p>	<p>Diary entry</p> <p>Letter writing</p> <p>Story writing</p>	<p>Students appreciate and recognise the good and healthy understanding between teachers and pupils.</p> <p>Highlights the struggle faced by the child and how to cope with it.</p> <p>Making of a scientist depicts the certain values that ensure human progress and contentment.</p>
OCTOBER	<p>The hundred dresses Part-I</p> <p>The hundred dresses Part-II</p> <p>Animals</p> <p>The necklace</p> <p>Rearranging the words</p> <p>Reported Speech.</p>	<p>Value of character traits</p> <p>Value of being happy and contented</p> <p>Value of Honesty</p>	<p>Letter writing, Article writing</p> <p>Story writing</p> <p>Book review</p>	<p>Children understood the moral lesson of what a man should be and they can display great character traits.</p> <p>Animals should also be respected and loved.</p> <p>One should be content with what life gives us.</p>
	Glimpses of India	Incredible India	Group discussion,	Children glorify the unity in diversity and this gives a sense



NOVEMBER	<p>1. A baker from Goa 2. Coorg 3. Tea from Assam</p> <p>The trees</p> <p>The hack driver</p> <p>Mijbil the Otter</p> <p>Fog</p>	<p>The importance of trees</p> <p>How to make life a sweet experience on earth</p> <p>Preventing cruelty to animals</p>	<p>collecting information about Coorg. Letter writing</p> <p>Listening</p>	<p>of pride and strengthens national integration.</p> <p>How we can protect the trees and forest since it slowly disappearing from the earth.</p> <p>We should first judge everything before we start accepting them.</p> <p>Animals are an integral part of human life.</p>
DECEMBER	<p>Madam rides the Bus</p> <p>The tale of custard the dragon</p> <p>The sermon at Banaras For Anne Gregory</p> <p>Gap filling/ Error correction</p>	<p>Mystery of life and death All that glitters is not gold</p> <p>Value of peace Love and spirituality</p>	<p>Writing travelogue Writing a narrative poem</p> <p>Debate</p>	<p>Good manners – key to make life happy.</p> <p>The poem carries a simple meaning that all that glitters is not gold or never judges a thing by its appearance.</p> <p>Children realised the true nature of humans who measure love through the outer beauty only. But this outer beauty is transient.</p>
JANUARY	<p>The proposal</p> <p>Bholi</p> <p>The book that saved the earth</p>	<p>Humour and fun</p> <p>The value of education Save planet earth</p>	<p>Dialogue writing Article writing Letter writing, Story writing</p>	<p>Humour and fun are essential for making life less stressful.</p> <p>Understood the value of education.</p> <p>Values make life a sweet experience for all living beings, together with the value of books.</p>
FEBRUARY				
MARCH				

**Annual Pedagogical Plan 2020-2021**

**Class XI**

**Subject: Biology**

MONTH	TOPICS	SHORT –TERM LEARNING OUTCOMES	PEDAGOGICAL STRATEGIES	RESOURCES	PRACTICALS	ASSESSMENT STRATEGY
JUNE	<p><b>(8) Cell: The unit of life</b> Cell theory; Cell structure- Eukaryotic and prokaryotic cell- cell wall, cell membrane; Cell organelles- ER, Golgi bodies, lysosomes, vacuoles, mitochondria, plastids, microbodies, cytoskeleton, cilia, flagella, ribosome, centrioles (Ultra structure and function), nucleus.</p>	<ul style="list-style-type: none"> <li>➤ Recognise the different parts of the cell</li> <li>➤ Compare between the plant and animal cell</li> </ul>	<ul style="list-style-type: none"> <li>➤ Concept map</li> <li>➤ Discussion</li> </ul>	<ul style="list-style-type: none"> <li>➤ AV aids</li> <li>➤ Text book</li> <li>➤ Class edge</li> </ul>	<ul style="list-style-type: none"> <li>➤ Visualise the models of cells and its organelles</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen-paper test</li> <li>➤ Oral test</li> </ul>
	<p><b>(10) Cell cycle and cell division</b> Cell cycle, mitosis, meiosis –significance</p>	<ul style="list-style-type: none"> <li>➤ Classify the different types of cell division</li> <li>➤ Understands about the growth and reproduction</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interactive lecture method</li> <li>➤ Content focussing</li> <li>➤ Hands on training</li> </ul>	<ul style="list-style-type: none"> <li>➤ Textbook</li> <li>➤ Black board</li> <li>➤ AV aids</li> </ul>	<ul style="list-style-type: none"> <li>➤ Study of mitosis in onion root tip cell</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral test</li> <li>➤ Quiz</li> </ul>

	<p><b>(15)Plant growth and development</b> Seed germination; conditions of growth rate; conditions of growth, differentiation, dedifferentiation; sequence of developmental processes; growth regulators- auxin, gibberellin, cytokinin, ethylene, ABA; Seed dormancy; vernalisation; photoperiodism</p>	<p>in living organisms</p> <ul style="list-style-type: none"><li>➤ Understands the concept of unlimited growth in plants</li><li>➤ Analyse the different parts of plants</li></ul>	<ul style="list-style-type: none"><li>➤ Teacher centered</li><li>➤ Observation method</li></ul>	<ul style="list-style-type: none"><li>➤ PPT</li><li>➤ Black board</li><li>➤ Class edge</li></ul>	<ul style="list-style-type: none"><li>➤ Pen-paper test</li><li>➤ Oral test</li><li>➤ project</li></ul>
JULY	<p><b>(5)Morphology of flowering plant</b> Internal Morphology of flowering plants</p>	<ul style="list-style-type: none"><li>➤ understands about the different parts of flowering plants</li><li>➤ classify the different types of leaves, flowers and families</li></ul>	<ul style="list-style-type: none"><li>➤ field study</li><li>➤ demonstration</li></ul>	<ul style="list-style-type: none"><li>➤ AV aids</li><li>➤ Black board</li></ul>	<ul style="list-style-type: none"><li>➤ Dissection and display of floral whorls of each of the families of flowering plants</li></ul> <ul style="list-style-type: none"><li>➤ Pen-paper test</li><li>➤ Oral test</li></ul>

	<p><b>(6) Anatomy of flowering plants</b> Anatomy and functions of different tissues</p>	<ul style="list-style-type: none"> <li>➤ identify the difference between dicot and monocot plant</li> <li>➤ understands the importance of vascular bundles in plants</li> </ul>	<ul style="list-style-type: none"> <li>➤ observation method</li> <li>➤ students oriented</li> </ul>	<ul style="list-style-type: none"> <li>➤ Text book</li> <li>➤ Black board</li> <li>➤ Class edge</li> </ul>	<ul style="list-style-type: none"> <li>➤ Mind mapping</li> <li>➤ Flow chart</li> </ul>
	<p><b>(7)Structural organisation in animals</b> Animal tissues; Morphology and functions of different systems( digestive, circulatory, respiratory, nervous, reproductive), Insect(cockroach)</p>	<ul style="list-style-type: none"> <li>➤ classify the different types of tissues in animals</li> <li>➤ understand the importance of each tissues</li> </ul> <p>Revision- 1<sup>st</sup> PT exam</p>	<ul style="list-style-type: none"> <li>➤ project</li> <li>➤ concept mapping</li> </ul>	<ul style="list-style-type: none"> <li>➤ AV- aids</li> <li>➤ Science cards</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen-paper test</li> <li>➤ Oral test</li> </ul>
AUGUST	<p><b>(11)Transport in plants</b> Movement of water; gases and nutrients, cell to cell</p>	<ul style="list-style-type: none"> <li>➤ Understand the importance of conducting tissues in plants</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interactive learning method</li> <li>➤ Concept map</li> </ul>	<ul style="list-style-type: none"> <li>➤ Textbook</li> <li>➤ Blackboard</li> <li>➤ Class edge</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen-paper test</li> <li>➤ Oral test</li> </ul>

	<p>transport, diffusion, facilitated diffusion, active transport, plant water relations, imbibition, osmosis, water potential, Plasmolysis; long distance transport of water, Uptake and translocation of mineral nutrients</p> <p><b>(4) Mineral nutrition</b> Essential minerals, micro and macro nutrients; deficiency symptoms, mineral toxicity, study of hydroponics, metabolism, nitrogen cycle, biological nitrogen fixation</p>	<ul style="list-style-type: none"> <li>➤ Analyse the different environmental factors needed for translocation</li> <li>➤ Students understand about the absorption mechanism of elements in plants</li> <li>➤ Understand how nitrogen is recycled back to the atmosphere</li> </ul>	<ul style="list-style-type: none"> <li>➤ Teacher centered</li> <li>➤ Project</li> <li>➤ Discussion method</li> </ul>	<ul style="list-style-type: none"> <li>➤ Blackboard</li> <li>➤ Class edge</li> </ul>		<ul style="list-style-type: none"> <li>➤ Oral test</li> <li>➤ Pen-paper test</li> </ul>
SEPTEMBER	<p><b>(9)Biomolecules</b> Chemical constituents of living cell: biomolecules, structure And function of proteins, carbohydrates, lipids, nucleic acids; Enzymes- types, properties, enzyme action.</p>	<ul style="list-style-type: none"> <li>➤ Student identify the different types of metabolic reactions taking place in organisms</li> </ul>	<ul style="list-style-type: none"> <li>➤ Content focussing</li> <li>➤ student oriented</li> </ul>	<ul style="list-style-type: none"> <li>➤ black board</li> <li>➤ textbook</li> <li>➤ audio visual aids</li> </ul>	<ul style="list-style-type: none"> <li>➤ test for detection of sugar, starch, proteins and fats</li> </ul>	<ul style="list-style-type: none"> <li>➤ pen-paper test</li> <li>➤ oral test</li> </ul>

	<p><b>(13)Photosynthesis</b> Photosynthesis, site of photosynthesis, pigments involved , photochemical and biosynthetic phases, cyclic and non cyclic photophosphorylation, chemiosmotic hypothesis, photorespiration; C3 and C4 pathways.</p>	<ul style="list-style-type: none"> <li>➤ Students analyse the different parts of photosynthetic apparatus</li> <li>➤ They understand the different types of photosynthesis</li> </ul>	<ul style="list-style-type: none"> <li>➤ flow chart</li> <li>➤ observation method</li> </ul>	<ul style="list-style-type: none"> <li>➤ textbook</li> <li>➤ class edge</li> <li>➤ PPT</li> </ul>		<ul style="list-style-type: none"> <li>➤ chart making</li> <li>➤ pen-paper test</li> <li>➤ model making</li> </ul>
	<p><b>(14) Respiration in plants</b> Exchange of gases; cellular respiration- glycolysis, fermentation, TCA cycle, electron transport system, amphibolic pathways; respiratory quotient.</p>	<ul style="list-style-type: none"> <li>➤ Students analyse the different organelles involved in respiration process</li> <li>➤ They classify the different aerobic and anaerobic respiration</li> </ul>	<ul style="list-style-type: none"> <li>➤ discussion method</li> <li>➤ observation method</li> <li>➤ teacher centered</li> </ul>	<ul style="list-style-type: none"> <li>➤ text book</li> <li>➤ class edge</li> <li>➤ black board</li> </ul>		<ul style="list-style-type: none"> <li>➤ pen-paper test</li> <li>➤ chart making</li> </ul>
		<p><b>Revision- 1<sup>st</sup> mid term exam</b></p>				

OCTOBER	<b>(18) Body fluids and circulation</b> Composition of blood, blood groups, coagulation of blood, composition of lymph, human circulatory system; Disorders of circulatory system.	<ul style="list-style-type: none"> <li>➤ Students analyse the structure of circulatory system</li> <li>➤ They classify the different types of blood groups and cells</li> </ul>	<ul style="list-style-type: none"> <li>➤ Observation method</li> <li>➤ Interactive lecture method</li> </ul>	<ul style="list-style-type: none"> <li>➤ Class edge</li> <li>➤ Textbook</li> <li>➤ Blackboard</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen-paper test</li> <li>➤ Oral test</li> <li>➤ Label the parts of circulatory system</li> </ul>
	<b>(17) Breathing and exchange of gases</b> Respiratory organs in Humans, mechanism of breathing and regulation in humans-exchange of gases, transport of gases, regulation of respiration, respiratory volume; disorders related to respiration	<ul style="list-style-type: none"> <li>➤ Students identify the different organs involved in breathing</li> <li>➤ They understand the mechanism of breathing</li> </ul>	<ul style="list-style-type: none"> <li>➤ Discussion method</li> <li>➤ Observation method</li> </ul>	<ul style="list-style-type: none"> <li>➤ Class edge</li> <li>➤ Blackboard</li> <li>➤ textbook</li> </ul>	<ul style="list-style-type: none"> <li>➤ Label the parts of human respiratory system</li> <li>➤ Oral test</li> </ul>
	<b>(16) Digestion and absorption</b> Alimentary canal, digestive glands, digestive enzymes, gastrointestinal hormones, peristalsis, absorption and assimilation-proteins, carbohydrates and fats; calorific values ; egestion;	<ul style="list-style-type: none"> <li>➤ Analyse the different parts of alimentary canal</li> <li>➤ Understand the mechanism of the enzymatic function in digestion</li> </ul>	<ul style="list-style-type: none"> <li>➤ Learner centered</li> <li>➤ Concept map</li> </ul>	<ul style="list-style-type: none"> <li>➤ textbook</li> <li>➤ class edge</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen-paper test</li> <li>➤ Oral test</li> </ul>



	nutritional and digestive disorders-PEM, Constipation, vomiting, jaundice, diarrhoea					
NOVEMBER	<b>(19) Excretory products and their elimination</b> Modes of excretion, human excretory system; Regulation of kidney functions; role of other organs in excretion; disorders.	<ul style="list-style-type: none"> <li>➤ Students will be able to recognise the different parts involved in the excretory product</li> <li>➤ They understand the process of urine formation and osmoregulation</li> </ul>	<ul style="list-style-type: none"> <li>➤ Project</li> <li>➤ Observation method</li> <li>➤ Discussion method</li> </ul>	<ul style="list-style-type: none"> <li>➤ Textbook</li> <li>➤ Class edge</li> <li>➤ Blackboard</li> </ul>		<ul style="list-style-type: none"> <li>➤ Chart making</li> <li>➤ Pen-paper test</li> </ul>
	<b>(20) Locomotion and movement</b> Types of movement; skeletal muscles; skeletal systems; joints; disorders of muscular and skeletal system	<ul style="list-style-type: none"> <li>➤ Students classify the different types of muscles involved in locomotion</li> <li>➤ They understand the mechanism of muscle contraction</li> </ul>	<ul style="list-style-type: none"> <li>➤ Group discussion</li> <li>➤ Interactive lecture method</li> </ul>	<ul style="list-style-type: none"> <li>➤ Class edge</li> <li>➤ textbook</li> </ul>	<ul style="list-style-type: none"> <li>➤ Study of human skeletal system and different types of joints with models and av aids</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen-paper test</li> <li>➤ Oral test</li> </ul>
	<b>(21) Neural control and coordination</b> Neurons and nerves; Nervous system in	<ul style="list-style-type: none"> <li>➤ Students recognise the different parts of</li> </ul>	<ul style="list-style-type: none"> <li>➤ Observation method</li> </ul>	<ul style="list-style-type: none"> <li>➤ textbook</li> <li>➤ black board</li> </ul>		<ul style="list-style-type: none"> <li>➤ Label the parts of</li> </ul>

	humans; generation and conduction of nerve impulse; reflex action; sensory perceptions; sense organs; Elementary structure and function of eye and ear	human nervous system ➤ They understand the generation and conduction of nerve impulse	➤ Content focussing			human brain ➤ Pen-paper test
<b>DECEMBER</b>	<p><b>(22) Chemical coordination and integration</b> Endocrine glands and hormones; Human endocrine system; role of hormones as messengers and regulators; mechanism of hormones; dwarfism.</p> <p><b>(1) The living world</b> Biodiversity, domains of classification, taxonomy, binomial nomenclature, tools for taxonomy, zoological parks, herbaria, botanical gardens.</p> <p><b>(2) Biological classification</b></p>	<p>➤ Students classify the different growth hormones</p> <p>➤ They understand the mechanism of different hormones</p> <p>➤ Students classify the different taxonomical groups</p>	<p>➤ Interactive Lecture method</p> <p>➤ Discussion method</p> <p>➤ Discussion method</p> <p>➤ Concept map</p>	<p>➤ Class edge</p> <p>➤ Black board</p> <p>➤ Text book</p> <p>➤ Text book</p> <p>➤ Class edge</p>		<p>➤ Pen-paper test</p> <p>➤ Oral test</p> <p>➤ Oral test</p> <p>➤ Pen-paper test</p>

	Five kingdom classification, features and classification of Monera, protista, fungi- Lichens, viruses, virioids	<ul style="list-style-type: none"> <li>➤ Students classify the five kingdom classification</li> <li>➤ They recognise the different organisms involved in each of them</li> </ul>	<ul style="list-style-type: none"> <li>➤ Discussion method</li> <li>➤ Interactive lecture method</li> </ul>	<ul style="list-style-type: none"> <li>➤ Class edge</li> <li>➤ Text book</li> <li>➤ Black board</li> </ul>		<ul style="list-style-type: none"> <li>➤ Pen-paper test</li> <li>➤ Oral test</li> </ul>
<b>JANUARY</b>	<p><b>(3) Plant kingdom</b> Features and classification of plants- Algae, Bryophyta, Pteridophyta, Gymnosperms, Angiosperms;</p> <p><b>(4) Animal kingdom</b> Features and classification of animals( non- chordates and chordates)</p>	<ul style="list-style-type: none"> <li>➤ Students classify the different divisions of plant kingdom</li> <li>➤ They develop positive attitude towards the plants species</li> <li>➤ Student understand the different characteristics features of phylum</li> </ul>	<ul style="list-style-type: none"> <li>➤ Field visit</li> <li>➤ Observation method</li> <li>➤ Observation method</li> <li>➤ Interactive lecture method</li> </ul>	<ul style="list-style-type: none"> <li>➤ Class edge</li> <li>➤ Text book</li> <li>➤ Text book</li> <li>➤ Class edge</li> </ul>		<ul style="list-style-type: none"> <li>➤ Pen-paper test</li> <li>➤ Oral test</li> <li>➤ Chart making</li> <li>➤ Flow chart</li> </ul>

		<b>Revision- 2<sup>nd</sup> Mid term exam</b>				
<b>FEBRUARY</b>		<b>Revision</b>				
<b>MARCH</b>		<b>Annual Examination</b>				

**Subject: Chemistry**

MONTH	TOPIC	LEARNING OUTCOME	PEDAGOGICAL STRATEGY	RESOURCES	ACTIVITY
JUNE	<b>Basic concepts of chemistry</b> >General introduction > its importance >Nature of matter, > laws of chemical combination >Dalton's atomic theory >concept of elements, atoms & molecules. >Atomic & molecular masses, mole concept, & molar mass, % composition, chemical reactions, stoichiometry & calculations based on it.	>Understanding >Analysing	>Learner centered >Content focused	>Reference book >Library	>Numerical solving
	<b>States of matter</b> >Three states of matter, >intermolecular interactions > gas laws, its derivation >deviation from ideal gas behaviour >Liquefaction of gases > K .E, molecular speeds >vapour pressure, viscosity surface tension	>Evaluation >Understanding	>Lecture method	>Visuals >Peer view writing task	>Test paper >Numerical solving

	>Discovery of electron, proton ,neutron, atomic number >thomson's model >Bohr's model >Heisenberg uncertainty principle >Concept of orbitals				
JULY	<b>Classification of elements &amp; periodicity in properties:</b> >Significance of classification > modern periodic law & the present form of periodic table > trends in properties of elements	>Analysing >Understanding	>Learner centered >Participative strategy	>PPT >Library	>MCQ
	<b>Chemical bonding &amp; molecular structure:</b>  >ionic bond > covalent bond > bond parameters >lewis structure > VB T > VSEPR theory >Concept of hybridization > MO theory > hydrogen bond	>Creativity >Evaluation	>Learner centered >Content focused	>Visuals >Reference book	>Drawing structure >Test paper

August	<b>Equilibrium:</b> >Equilibrium in physical & chemical processes > law of mass action, equilibrium constant, factors affecting it >Ionic equilibrium >ionisation of acids & bases, strong & weak electrolytes degree of ionization > concept of PH >buffer solution > solubility product > common ion effect	>Understanding >Analysing	>Learner centered >Lecture method	>Reference book >Peer view writing task	>Practicals >Test paper
	<b>Organic chemistry:</b> >General introduction >tetravalence of carbon, >classification of organic compounds, >its nomenclature > isomerism > organic reaction mechanism, >purification techniques, qualitative analysis	>Understanding	>Learner centered	>Reference book >Visuals	>Practicals >Test paper
September	<b>Hydrocarbons:</b> .Classification, alkanes, alkenes, alkynes >aromatic hydrocarbon >carcinogenicity & toxicity	>Evaluation	>Discussion method >Application	>Interactive panel	>Peer review writing task

	<b>Hydrogen:</b> >Dihydrogen > its preparation & properties, >hydrides > water > hydrogen peroxide > heavy water >dihydrogen as a fuel.	>Analysing	>Lecture method	>Visuals	>Practicals
October	<b>Redox reactions:</b> >Classical idea >Oxidation – reduction reaction >Oxidation number >Redox reactions & electrode processes	>Creativity	>Content Focused	>Peer view writing task	>Practicals >Test paper
	<b>The s-block elements:</b> >General characteristics > anomalous properties > some important compounds >its biological importance of group 1 & 2 elements	>understanding	>Lecture method	>Visuals >Reference book	>Test paper
November	<b>The p – block elements:</b> >General characteristics >Anomalous properties >Some important compounds >Important trends of group 13 ,14 elements	>understanding	>Lecture method	>Visuals >Reference book	>Test paper



December	<b>The thermodynamics:</b> >The basic concepts >Zeroth law of thermodynamics >First law of thermodynamics >Enthalpy >Exothermic & endothermic reactions  >Thermodynamical equations >Enthalpy change >Hess,s law >Lattice energy >Spontaneous & Non – spontaneous processes >Gibb<s energy	>Understanding	>Lecture method	>Library >Visuals	>Numerical Solving >Test paper
January	<b>Environmental pollution:</b> >Envirinmental pollution >Atmospheric pollution >Water pollution >Soil pollution >Strategies to control pollution >Green chemistry  <b>REVISION</b>	>Understanding	>Demonstration	>Library	>Seminar

February	Revision,Exam				
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**Subject: Physics**

MONTH	TOPICS / SUBTOPICS	PEDAGOGICAL STRATEGIES	ACTIVITY/ PRACTICALS	ASSESSMENT STRATEGIES	LEARNING OUTCOME
JUNE	<u>I. Physical World and Measurement</u> <u>1: Physical World</u> . Physics - scope and excitement; nature of physical laws; Physics, technology and society. <u>2: Units and Measurements</u> Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. Length, mass and time measurements; accuracy and precision of measuring instruments; errors in measurement; significant figures .Dimensions of physical quantities; dimensional analysis and its applications.	Seminar Smart class  Interactive learning, discussion, problemsolving, Plotting graphs. Deriving mathematical relations.	  1.Vernier Callipers	Oral test  Oral test Test paper. MCQ. Solving problems	<ul style="list-style-type: none"> <li>Understands what is physics.</li> <li>Identifies the importance of Physics.</li> <li>Understands the different system of units.</li> <li>Able to use their knowledge in solving numerical problems</li> <li>Understands dimensional Analysis.</li> </ul>



AUGUST	<p><b><u>III Laws of Motion.</u></b></p> <p><b><u>5. Laws of Motion.</u></b></p> <p>Intuitive concept of force; Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces; Dynamics of uniform circular motion: centripetal force, examples of circular motion</p>	<p>Interactive learning, discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class.</p>	4. Beam Balance	<p>Oral test</p> <p>Test paper.</p> <p>MCQ.</p> <p>Solving problems</p>	<ul style="list-style-type: none"> <li>• Able to use their knowledge in solving numerical problems.</li> <li>• Understands the laws of motion.</li> <li>• Applies their knowledge in day to day life.</li> </ul>
SEPTEMBER	<p><b><u>IV Work Energy Power</u></b></p> <p><b><u>6. Work Energy Power</u></b></p> <p>Work done by a constant force and a variable force; kinetic energy; work-energy theorem; power. Notion of potential energy; potential energy of a spring; conservative forces: conservation of mechanical energy (kinetic and potential</p>	<p>Interactive learning, discussion, problem solving. Deriving mathematical relations. Smart class.</p>	5. Parallelogram law of vectors	<p>Oral test</p> <p>MCQ.</p> <p>Solving problems</p>	<ul style="list-style-type: none"> <li>• Able to use their knowledge in solving numerical problems</li> <li>• Applies their knowledge in day to day life.</li> <li>• Understands the scientific meaning of work.</li> <li>• Explains different forms of energy.</li> </ul>

	<p>energies); non-conservative forces: motion in a vertical circle; elastic and inelastic collisions in one and two dimensions.</p> <p><u>V Motion of System of Particles and Rigid Body.</u></p> <p><u>7.System of Particles and Rotational Motion.</u></p> <p>Centre of mass of a two-particle system; momentum conservation and centre of mass motion. Centre of mass of a rigid body; centre of mass of a uniform rod.Moment of a force; torque; angular momentum; laws of conservation of angular momentum and its applications.</p>	<p>Interactive learning, discussion, problem solving. Deriving mathematical relations. Smart class.</p>		<p>Oral test Test paper. MCQ. Solving problems</p>	
	<p>7. Continuation</p> <p>Equilibrium of rigid bodies; rigid body rotation and equations of rotational motion; comparison of linear and rotational motions.Moment of inertia; radius of gyration; values of</p>	<p>Discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class.</p>	6. Spherometer	<p>Oral test Test paper. MCQ. Solving problems</p>	<ul style="list-style-type: none"> <li>• Able to use their knowledge in solving numerical problems</li> <li>• Applies their knowledge in day to day life.</li> <li>• Understands rigid body.</li> </ul>

OCTOBER	<p>moments of inertia for simple geometrical objects Statement of parallel and perpendicular axes theorems and their applications.</p> <p><u>VI Gravitation</u></p> <p><u>Gravitation</u></p> <p>Keplar's laws of planetary motion, universal law of gravitation.Acceleration due to gravity and its variation with altitude and depth.Gravitational potential energy and gravitational potential; escape velocity; orbital velocity of a satellite;Geo-stationary satellites.</p> <p><u>VII. Properties of Bulk Matter</u></p> <p><u>9. Mechanical Properties of Solids</u></p> <p>Elastic behaviour; Stress-strain relationship; Hooke's law; Young's modulus; bulk modulus; shear modulus of rigidity; Poisson's ratio; elastic energy.</p>	<p>Discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class.</p> <p>Interactive learning, discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class.</p>		<p>Oral test Test paper. MCQ. Solving problems</p> <p>Oral test Test paper. MCQ. Solving problems</p>	<ul style="list-style-type: none"> <li>• Able to use their knowledge in solving numerical problems</li> <li>• Applies their knowledge in day to day life.</li> <li>• Understands Kepler's law .</li> </ul> <ul style="list-style-type: none"> <li>• Able to use their knowledge in solving numerical problems</li> <li>• Applies their knowledge in day to day life.</li> <li>• Explains Hooke's law</li> <li>• Plots graph to show the variation of interrelated physical quantities.</li> </ul>
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	specific heat capacity; calorimetry; change of state - latent heat capacity. Heat transfer-conduction, convection and radiation, thermal conductivity, Qualitative ideas of Blackbody radiation; Wein's displacement Law, Stefan's law, Greenhouse effect.				
DECEMBER	<p><u>VIII Thermodynamics</u></p> <p><u>12. Thermodynamics</u></p> <p>Thermal equilibrium and definition of temperature (zeroth law of thermodynamics). Heat, work and internal energy. First law of thermodynamics. Isothermal and adiabatic processes. Second law of thermodynamics: reversible and irreversible processes; Heat engine and refrigerator.</p> <p><u>IX Behaviour of Perfect gases and Kinetic Theory of Gases</u></p> <p><u>13. Kinetic Theory</u></p> <p>Equation of state of a perfect</p>	<p>Interactive learning, discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class</p> <p>Interactive learning,</p>	<p>9. Simple pendulum I</p> <p>10. Sonometer</p>	<p>Oral test Test paper. MCQ. Solving problems</p>	<ul style="list-style-type: none"> <li>• Able to use their knowledge in solving numerical problems</li> <li>• Applies their knowledge in day to day life.</li> </ul>

	<p>gas, work done in compressing a gas.</p> <p>Kinetic theory of gases - assumptions, concept of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; degrees of freedom, law of equi-partition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path, Avogadro's number.</p>	<p>discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class</p>		<p>Oral test Test paper. MCQ. Solving problems</p>	<ul style="list-style-type: none"> <li>• Able to use their knowledge in solving numerical problems</li> <li>• Applies their knowledge in day to day life.</li> </ul>
JANUARY	<p><b><u>X Mechanical Waves</u></b></p> <p><b><u>14.Oscillations</u></b></p> <p>Periodic motion -time period, frequency, displacement as a function of time, periodic functions.Simple harmonic motion(S.H.M) and its equation; phase; oscillations of a loaded spring restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of</p>	<p>Interactive learning, discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class</p>	<p>11) Sonometer II</p> <p>12) Resonance Tube</p> <p>13. Simple pendulum II</p>	<p>Oral test Test paper. MCQ. Solving problems</p>	<ul style="list-style-type: none"> <li>• Able to use their knowledge in solving numerical problems</li> <li>• Applies their knowledge in day to day life.</li> <li>• Able to integrate different ideas</li> </ul>

	<p>expression for its time period. Free, forced and damped oscillations (qualitative ideas only), resonance.</p> <p><u>15.Waves</u></p> <p>Transverse and longitudinal waves, speed of wave motion, displacement relation for a progressive wave, principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats, Doppler effect.</p>	<p>Interactive learning, discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class</p>	<p>14. Young's modulus</p> <p>15. Capillarity</p>	<ul style="list-style-type: none"><li>• Able to use their knowledge in solving numerical problems</li><li>• Applies their knowledge in day to day life.</li><li>• Acquires the value of critical thinking.</li></ul>	
FEBRUARY					REVISION
MARCH					ANNUAL EXAMS

**Subject: Economics**

MONTH	TOPIC	LEARNING OUTCOME	PEDAGOGICAL STRATEGY	RESOURCES	ACTIVITY
JUNE	<ul style="list-style-type: none"> <li>● Introduction to microeconomics</li> <li>➤ Scope of economics</li> <li>➤ Meaning of micro economics</li> <li>➤ Economy and economic problem</li> <li>➤ Central problems of an economy</li> <li>➤ Concept of Production Possibility Frontier and Opportunity Cost</li> </ul>	<ul style="list-style-type: none"> <li>● Understanding the meaning of microeconomics</li> <li>● Recognize the role of ethical values in economics (normative and positive economics)</li> <li>● Use economic thinking to explain choice in a world of scarcity</li> <li>● Familiarizing with the central problems of an economy</li> <li>● Evaluating the PP curve of an economy</li> </ul>	<ul style="list-style-type: none"> <li>● Concept mapping</li> <li>● Interactive lecture method</li> <li>● Observation method</li> </ul>	<ul style="list-style-type: none"> <li>● Black board</li> <li>● Smart class</li> <li>● PPT</li> </ul>	<ul style="list-style-type: none"> <li>● Assignment on meaning scope and importance of economics</li> <li>● Chart making on difference between micro and macro economics</li> <li>● Problem solving on opportunity cost</li> </ul>

	<ul style="list-style-type: none"> <li>• Introduction to statistics</li> <li>➤ Meaning</li> <li>➤ Scope</li> <li>➤ Functions</li> <li>➤ Importance of statistics in economics</li> </ul>	<ul style="list-style-type: none"> <li>• Recognizing the importance of statistics in economics</li> <li>• Understanding the functions of statistics</li> </ul>	<ul style="list-style-type: none"> <li>• Teacher centered</li> <li>• Concept based</li> </ul>	<ul style="list-style-type: none"> <li>• NCERT textbook</li> <li>• Reference books</li> <li>• Smart class</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment on functions of statistics</li> <li>• Seminar on role of statistics in economics</li> </ul>
JULY	<ul style="list-style-type: none"> <li>• Consumer's equilibrium and demand</li> <li>➤ Consumer's equilibrium through utility analysis</li> <li>➤ Consumer's equilibrium through indifference curve analysis</li> <li>• Collection, Organization and Presentation of data</li> <li>➤ Collection of data</li> <li>➤ Primary data and secondary data</li> </ul>	<ul style="list-style-type: none"> <li>• Understanding how consumer behavior shapes the demand curve with respect to utility and loss</li> <li>• Familiarizing with concepts of utility, indifference curve and budget line</li> <li>• Acquire economic efficiency</li> <li>• Able to conduct economic surveys</li> <li>• Understanding types of sampling</li> <li>• Recognizing the agencies which collect statistical data</li> <li>• Able to extract information intelligently</li> </ul>	<ul style="list-style-type: none"> <li>• Demonstration method</li> <li>• Interactive/participative strategy</li> <li>• Discussion method</li> <li>• Lecture method</li> <li>• Application method</li> <li>• Interactive lecture method</li> <li>• Application method</li> <li>• Observation method</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Reference books</li> <li>• PPT</li> <li>• Black board</li> <li>• Text book</li> <li>• Smart class</li> <li>• Reference books</li> <li>• Concept mapping</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment on theories of consumer equilibrium</li> <li>• Role play on law of diminishing marginal utility</li> <li>• Questionnaire preparation</li> <li>• Assignment on methods of data collection</li> </ul>

	<ul style="list-style-type: none"> <li>➤ Methods of data collection</li> <li>➤ Concept of sampling</li> <li>➤ Census of India and NSSO</li> </ul>				
AUGUST	<ul style="list-style-type: none"> <li>➤ Consumer's equilibrium and demand</li> <li>➤ Demand</li> <li>➤ Determinants of demand</li> <li>➤ Movement along and shift in demand curve</li> <li>➤ Price elasticity of demand</li> <li>• Collection, Organization and Presentation of data</li> <li>➤ Organization of data</li> <li>➤ Frequency distribution</li> <li>➤ Presentation of data</li> </ul>	<ul style="list-style-type: none"> <li>• Able to investigate changes in the society</li> <li>• Measures how changes in price and income affect the behavior buyers</li> <li>• Apply it in the real life</li> <li>•</li> <li>• Able to conduct economic analysis using graphs</li> <li>• Able to explain a table</li> <li>• Interpreting different types of diagrams.</li> </ul>	<ul style="list-style-type: none"> <li>• Concept mapping</li> <li>• Explanation technique</li> <li>• Discussion method</li> <li>• Demonstration method</li> <li>• Discovery method</li> <li>• Concept mapping</li> <li>• Project method</li> <li>• Application based</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Reference books</li> <li>• NCERT books</li> <li>• Smart class</li> <li>• Text book</li> <li>• PPT</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment on demand and determinants of demand</li> <li>• Problem solving on price elasticity of demand</li> <li>• Draw a table on a topic and explain it</li> <li>• Draw different types of diagrams</li> </ul>

	<ul style="list-style-type: none"> <li>➤ Tabular presentation</li> <li>➤ Diagrammatic presentation</li> </ul>				
SEPTEMBER	<ul style="list-style-type: none"> <li>• Producer behavior and supply</li> <li>➤ Production function</li> <li>➤ Cost</li> <li>➤ Revenue</li> <li>• Statistical tools and interpretation</li> <li>➤ Measures of central tendency</li> </ul>	<ul style="list-style-type: none"> <li>• Critical thinking</li> <li>• Reasoning</li> <li>• Analyze the relationship between inputs used in production and the resulting outputs and costs</li> <li>• Able to conduct economic analysis using equations</li> <li>• Present an economic argument in quantitative terms</li> </ul>	<ul style="list-style-type: none"> <li>• Concept based</li> <li>• Observation method</li> <li>• Teacher centered</li> <li>• Demonstration method</li> <li>• Participative strategy</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• PPT</li> <li>• Black board</li> <li>• NCERT Textbooks</li> <li>• Reference books</li> <li>• Smart class</li> <li>• Text books</li> <li>• Black board</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment on average and marginal relationships in terms of cost and revenue</li> <li>• Problem solving on cost and revenue</li> <li>• Conduct a survey and interpret the results using the measures of central tendency</li> <li>• Problem solving on measures of central tendency</li> </ul>
OCTOBER	<ul style="list-style-type: none"> <li>➤ Producer behavior and supply</li> </ul>	<ul style="list-style-type: none"> <li>• Measures how change in price and income affect the behavior of sellers</li> </ul>	<ul style="list-style-type: none"> <li>• Interactive lecture method</li> <li>• Demonstration method</li> </ul>	<ul style="list-style-type: none"> <li>• PPT</li> <li>• E-resources</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment on supply and its determinants</li> </ul>



	<ul style="list-style-type: none"> <li>➤ Producer's equilibrium</li> <li>➤ Supply</li> <li>➤ Determinants of supply</li> <li>➤ Movement along and shift in supply curve</li> <li>➤ Price elasticity of supply</li> <li>• Statistical tools and interpretation</li> <li>➤ Measures of dispersion</li> <li>➤ Absolute and relative measures of dispersion</li> <li>➤ Lorenz curve</li> </ul>	<ul style="list-style-type: none"> <li>• Apply it in the real life</li> <li>• Develop economic way of thinking</li> <li>• Effectively conduct research</li> <li>• Understanding the application of Lorenz curve in economics</li> </ul>	<ul style="list-style-type: none"> <li>• Explanation technique</li> <li>• Teacher centered</li> <li>• Teacher centered</li> <li>• Demonstration method</li> <li>• Explanation technique</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Black board</li> <li>• Smart class</li> <li>• Text books</li> <li>• Black board</li> </ul>	<ul style="list-style-type: none"> <li>• Problem solving on price elasticity of supply</li> <li>• Problem solving on producer equilibrium</li> <li>• Assignment on Lorenz curve and its applications</li> <li>• Problem solving on measures of dispersion</li> </ul>
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NOVEMBER	<ul style="list-style-type: none"> <li>• Forms of market and price determination</li> <li>• Perfect competition</li> <li>• Determination of market equilibrium</li> <li>• Effects of shift in demand and supply</li> <li>• Statistical tools and interpretation               <ul style="list-style-type: none"> <li>➤ Correlation</li> <li>➤ Measures of correlation</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Analyze a firm's profit maximizing decision under condition of Perfect Competition</li> <li>• Able to Apply demand and supply tools</li> <li>• Knowledge for making decisions in everyday life</li> <li>• Able to evaluate the likely outcome of economic policies</li> <li>• Present an economic argument in quantitative terms</li> <li>• Understanding the various methods of measuring correlation</li> </ul>	<ul style="list-style-type: none"> <li>• Observation method</li> <li>• Interactive lecture method</li> <li>• Inductive method</li> <li>• Demonstration method</li> <li>• Observation method</li> <li>• Participative strategy</li> <li>• Questioning technique</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• NCERT Text book</li> <li>• E-resources</li> <li>• PPT</li> <li>• Text book</li> <li>• Reference books</li> <li>• Smart class</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment on Features of different types of markets</li> <li>• Seminar on effect of shift in demand and supply</li> <li>• Application of measures of correlation</li> <li>• Chart making on scatter diagram</li> </ul>
DECEMBER	<ul style="list-style-type: none"> <li>• Forms of market and price determination               <ul style="list-style-type: none"> <li>➤ Monopoly</li> <li>➤ Monopolistic competition</li> <li>➤ oligopoly</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Economic efficiency</li> <li>• Identifying different types of markets</li> <li>• Understanding the process of price determination under different market forms</li> </ul>	<ul style="list-style-type: none"> <li>• Demonstration method</li> <li>• Discovery method</li> <li>• Project method</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• PPT</li> <li>• Reference books</li> <li>• Concept mapping</li> </ul>	<ul style="list-style-type: none"> <li>• Seminar on price determination under different market forms</li> <li>• Chart making on forms of market</li> </ul>

JANUARY	<ul style="list-style-type: none"> <li>• Statistical tools and interpretation</li> <li>➤ Index numbers</li> <li>➤ Types</li> <li>➤ Construction</li> <li>➤ uses</li> </ul>	<ul style="list-style-type: none"> <li>• Evaluate the trends in economy</li> <li>• Logical thinking</li> <li>• Efficient and precise in describing real world phenomena</li> <li>• Higher level of thinking</li> </ul>	<ul style="list-style-type: none"> <li>• Learner centered</li> <li>• Discovery method</li> <li>• Participative strategy</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Black board</li> <li>• Reference books</li> </ul>	<ul style="list-style-type: none"> <li>• Construct daily price index of a local vegetable market</li> <li>• Problem solving on index numbers</li> </ul>
FEBRUARY		REVISION			
MARCH		ANNUAL EXAMINATION			

**Subject: Malayalam**

Month	Topic	Short term outcome	Pedagogical Practice	Long term outcome
June	1. സന്ദർശനം	ചുറ്റളിക്കാടിന്റെ കൃതികൾ പരിചയപ്പെടുന്നു	കുറിപ്പ് തയ്യാറാക്കൽ പാരായണം, പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു.	പ്രണയത്തിന്റെയും കൂവർത്തമാനങ്ങളുടെ നിറഭേദങ്ങൾ അറിയുന്നതിന്
	2. ഓർമ്മയുടെ ഞരമ്പ്	നോവലിസ്റ്റിനെ പരിചയപ്പെടുന്നു	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു, വിവർത്തനം തയ്യാറാക്കുന്നു	അടിച്ചമർത്തപ്പെടുന്ന സ്ത്രീകളുടെ വ്യഥ
July	3. വേരുകൾ നഷ്ടപ്പെടുത്തുന്നവർ	കഥാകൃത്തിനെ പരിചയപ്പെടുന്നു	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു.	പ്രകൃതിസ്നേഹം വളരുന്നു
	4. മൽസ്യം	മനുഷ്യൻ്റെ സ്വാതന്ത്ര്യത്തെ ഹനിക്കുന്ന ഘടകങ്ങളെക്കുറിച്ച് മനസ്സിലാക്കുന്നതിനു	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	മനുഷ്യൻ്റെ സ്വാതന്ത്ര്യത്തെ ഹനിക്കുന്ന ഘടകങ്ങളെക്കുറിച്ച് മനസ്സിലാക്കുന്നു
August	5. കായലരികത്ത്	പഴയകാല സിനിമകളുടെ സവിശേഷതകൾ മനസ്സിലാക്കുന്നതി	പാരായണം പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	പഴയകാല സിനിമകളുടെ സവിശേഷതകൾ അറിയുന്നു

September	6. സിനിമയും സമൂഹവും	വായന , കലാമാതൃകകളുടെ സ്വീകരണങ്ങൾ അറിയുന്നു	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു.	ജനപ്രിയസിനിമകൾ അവഗണിക്കപ്പെടുന്നുണ്ടോ
October	7. ഊഞ്ഞാലിൽ	വൈജ്യാപിള്ളിയുടെ കവിത	പാഠാനുബന്ധപ്രവർത്തനങ്ങൾ	ദാമ്പത്യ ബന്ധത്തിന്റെ ഹൃദ്യമായ ആവിഷ്കാരം
November	8 അനർഘ നിമിഷം	ചിരിക്ക് പിന്നിലുള്ള ദുഃഖം തിരിച്ചറിയുന്നതിന്	പാഠാനുബന്ധപ്രവർത്തനങ്ങൾ	ചിരിക്ക് പിന്നിലുള്ള ദുഃഖം തിരിച്ചറിയുന്നു
December	9. പീലിക്കണ്ണുകൾ	കവിതയിലെ അവതരണ സാധ്യതകൾ കണ്ടെത്തി അവതരിപ്പിക്കുന്നതിന്	കവിപരിചയം ...	കൃഷ്ണന്റെ ബാല്യ കാല ലീലകൾ അറിയുന്നു
January	10. സംക്രമണം	സ്ത്രീശാക്തീകരണത്തിന്റെ ചരിത്രം അറിയുന്നതിന്	സമാന കൃതികൾ കണ്ടെത്തി വായിക്കുന്നു  പാഠായണം പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	സ്ത്രീശാക്തീകരണത്തിന്റെ ചരിത്രം അറിയുന്നു

February	പുനരാവർത്തനം			
March	പുനരാവർത്തനം Annual Exam			

**Subject:Maths**

Month	Topic	Learning Objectives	Pedagogical strategies	Learning outcomes	Assessment Strategy
June	1. Sets	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Identify sets ,its representation, types of sets</li> <li>➤ Understand subsets, power set, Universal sets, venn diagrams</li> <li>➤ Analyse operations on sets and practical problems on union and intersection of sets.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Realia</li> <li>➤ Discussion</li> <li>➤ Flowchart</li> </ul>	<p>Student will be able to realise</p> <ul style="list-style-type: none"> <li>➤ sets and its representation</li> <li>➤ Types of sets</li> <li>➤ Subsets power set</li> <li>➤ universal set</li> <li>➤ Venn diagram</li> <li>➤ Operations on sets</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral questions</li> <li>➤ Flow chart</li> <li>➤ Pen - paper test</li> </ul>
	5.Complex numbers and quadratic equations	<p>Student will be able to</p> <ul style="list-style-type: none"> <li>➤ Identify complex numbers</li> <li>➤ Understand algebra of complex numbers, modulus and conjugate of complex numbers</li> <li>➤ Recognise argand plane and polar representation</li> <li>➤ Analyse quadratic equations</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pose questions</li> <li>➤ Interactive lecture</li> <li>➤ discussion</li> </ul>	<p>Student will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Complex numbers</li> <li>➤ Algebra of complex numbers</li> <li>➤ Modulus and conjugate of complex numbers</li> <li>➤ Argand plane and polar representation</li> <li>➤ Quadratic equations</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral question</li> <li>➤ Pen paper test</li> </ul>
July	2. Relations and functions	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand Cartesian product of sets</li> <li>➤ Classify relations and function</li> </ul>	<ul style="list-style-type: none"> <li>➤ Realia</li> <li>➤ Smart class</li> <li>➤ Flow chart</li> </ul>	<p>Student will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Cartesian Product of set</li> <li>➤ Relations</li> <li>➤ Functions</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral questions</li> <li>➤ Summarising</li> <li>➤ Pen – paper test</li> </ul>



	3. Trigonometric Functions	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Classify the angles</li> <li>➤ Understand the trigonometric functions</li> <li>➤ Recognise sum and difference of trigonometric functions</li> <li>➤ Identify trigonometric equations</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pose questions</li> <li>➤ Interactive lectures</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Angles</li> <li>➤ Trigonometric functions</li> <li>➤ Sum and difference of trigonometric functions</li> <li>➤ Trigonometric equations</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral questions</li> <li>➤ Summarising</li> <li>➤ Pen – paper test</li> <li>➤ Lab work</li> </ul>
August	<p>4. Principles of mathematical Induction</p> <p>1. Linear Inequalities.</p>	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand and analyse the principles of mathematical Induction</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand inequalities</li> <li>➤ Identify algebraic solutions of linear inequalities on one variable and its graph</li> <li>➤ Develop skill in graphical solution of linear inequalities in two variable</li> <li>➤ Understand the solutions of system of linear inequalities in two variables</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interactive lecture</li> <li>➤ Discussion</li> <li>➤ Smart class</li> <li>➤ Discussion</li> <li>➤ Interactive lecture</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ the principles of mathematical induction</li> </ul> <p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ inequalities</li> <li>➤ algebraic solutions of linear inequalities in one variable</li> <li>➤ graphical solutions of linear inequalities in two variable</li> <li>➤ solutions of linear inequalities in two variable</li> </ul>	<ul style="list-style-type: none"> <li>➤ pen paper test</li> <li>➤ pen paper test</li> <li>➤ lab work</li> </ul>
September	<p>2. Permutations and combinations</p> <p>3. Binomial</p>	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand the fundamental principles of counting</li> <li>➤ Identify and recognise permutations and combination</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pose questions</li> <li>➤ Realia</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Fundamental principles of counting</li> <li>➤ Permutations</li> <li>➤ Combinations</li> </ul>	<ul style="list-style-type: none"> <li>➤ Class edge activity</li> <li>➤ Pen paper test</li> <li>➤ Lab work</li> </ul>

	Theorem	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand binomial theorem for positive integral indices</li> <li>➤ Identify the middle term and general term</li> </ul>	<ul style="list-style-type: none"> <li>➤ Discussion</li> <li>➤ Interactive lecture</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Binomial theorem for positive integral indices</li> <li>➤ Middle and general terms</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen paper test</li> <li>➤ Class edge activity</li> </ul>
October	<p>4. Sequences and series</p> <p>12. Introduction to three dimensional geometry</p>	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand sequences and series</li> <li>➤ Identify A.P and G.P</li> <li>➤ Recognise the relationship between A.M and G.M</li> <li>➤ Identify the sum to n terms of special series</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Identify coordinate axes and coordinate planes in 3-D space</li> <li>➤ Understand the coordinates of a point in a space</li> <li>➤ Understand the distance between two points and section formula</li> </ul>	<ul style="list-style-type: none"> <li>➤ Realia</li> <li>➤ Pose questions</li> <li>➤ Interactive lecture</li> <li>➤ Smart class</li> <li>➤ Interactive lecture</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Sequence and series</li> <li>➤ A.P and G.P</li> <li>➤ Relationship between A.M and G.M</li> <li>➤ Sum to n terms of special series</li> </ul> <p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Coordinate axes and coordinate planes in 3-D space</li> <li>➤ Coordinate of a point in a space</li> <li>➤ Distance between two points</li> <li>➤ Section formula</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen paper test</li> <li>➤ Lab work</li> <li>➤ Class edge activity</li> <li>➤ Pen paper test</li> </ul>
November	5. Straight lines	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand slope of a line and various forms of equations of a line</li> <li>➤ Identify general equations of a line</li> <li>➤ Recognise distance of a point from a line</li> </ul>	<ul style="list-style-type: none"> <li>➤ Smart class</li> <li>➤ Discussion</li> <li>➤ Pose questions</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Slope of a line</li> <li>➤ Various forms of equations of a line</li> <li>➤ General equations of a line</li> <li>➤ Distance of a point</li> </ul>	<ul style="list-style-type: none"> <li>➤ Summarising</li> <li>➤ Pen paper test</li> <li>➤ Lab work</li> </ul>

	15. Statistics	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand measures of dispersion , range and mean deviation</li> <li>➤ Identify variance and standard deviation</li> <li>➤ Recognise the analysis of frequency distributions</li> </ul>	<ul style="list-style-type: none"> <li>➤ Discussion</li> <li>➤ Interactive lecture</li> </ul>	<p>from a line</p> <p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Measures of dispersion</li> <li>➤ Range</li> <li>➤ Mean deviation</li> <li>➤ Variance and standard deviation</li> <li>➤ Analysis of frequency distributions</li> </ul>	<ul style="list-style-type: none"> <li>➤ Work sheet</li> <li>➤ Summarising</li> <li>➤ Pen paper test</li> </ul>
December	<p>6. Conic sections</p> <p>16. probability</p>	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand sections of a cone</li> <li>➤ Identify and classify circles parabola ,ellipse and hyperbola</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand random experiment</li> <li>➤ Identify events and axiomatic approach to probability</li> </ul>	<ul style="list-style-type: none"> <li>➤ Smart class</li> <li>➤ Realia</li> <li>➤ Discussion</li> <li>➤ Realia</li> <li>➤ discussion</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ sections of a cone</li> <li>➤ circle</li> <li>➤ parabola</li> <li>➤ ellipse</li> <li>➤ hyperbola</li> </ul> <p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ random variable</li> <li>➤ events</li> <li>➤ axiomatic approach to probability</li> </ul>	<ul style="list-style-type: none"> <li>➤ work sheet</li> <li>➤ summarising</li> <li>➤ pen paper test</li> <li>➤ pen paper test</li> <li>➤ lab work</li> </ul>
January	13. limits and derivatives	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ understand intuitive idea of derivatives</li> <li>➤ identify limits and limits of trigonometric functions</li> <li>➤ understand derivatives</li> </ul>	<ul style="list-style-type: none"> <li>➤ smart class</li> <li>➤ interactive lecture</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ intuitive ideas of derivatives</li> <li>➤ limits</li> <li>➤ limits of trigonometric functions</li> <li>➤ derivatives</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen paper test</li> <li>➤ Lab work</li> </ul>
February		REVISION			
March		ANNUAL EXAMINATION			

**Subject: Informatics Practices**

MONTH	TOPIC	LEARNING OUTCOME	PEDAGOGICAL STRATEGY	RESOURCES	ACTIVITY
JUNE	<ul style="list-style-type: none"> <li>• Introduction to computer and computing <ul style="list-style-type: none"> <li>▪ Evolution</li> <li>▪ Components and interconnections</li> <li>▪ Input/Output devices</li> </ul> </li> <li>• Computer memory <ul style="list-style-type: none"> <li>▪ Units of memory</li> <li>▪ Primary and Secondary memory</li> <li>▪ Data deletion, recovery and related security</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>➤ Evaluation</li> <li>➤ Understanding</li> </ul>	<ul style="list-style-type: none"> <li>➤ Discussion method</li> <li>➤ Learner centered</li> </ul>	<ul style="list-style-type: none"> <li>➤ Reference books</li> <li>➤ PPT</li> </ul>	<ul style="list-style-type: none"> <li>➤ Peer review writing task.</li> </ul>
JULY	<ul style="list-style-type: none"> <li>• Software <ul style="list-style-type: none"> <li>▪ Purpose</li> <li>▪ System and Application software</li> <li>▪ Generic and Special purpose software</li> </ul> </li> <li>• Familiarization with Python programming basics <ul style="list-style-type: none"> <li>▪ Interactive and Script modes</li> <li>▪ Structure of a program</li> <li>▪ Indentation</li> <li>▪ Identifiers</li> <li>▪ Keywords, Constants</li> <li>▪ Variables</li> <li>▪ Operators and their precedence</li> <li>▪ Datatypes and mutability</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>➤ Understanding</li> <li>➤ Analysing</li> </ul>	<ul style="list-style-type: none"> <li>➤ Learner centred</li> <li>➤ Content focused</li> </ul>	<ul style="list-style-type: none"> <li>➤ PPT</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lab work.</li> </ul>
AUGUST	<ul style="list-style-type: none"> <li>▪ Statements and Expressions</li> <li>▪ Evaluation and Comments</li> <li>▪ Input and Output statements</li> <li>▪ Data type conversion</li> <li>▪ Debugging</li> <li>• Control statements <ul style="list-style-type: none"> <li>▪ if-else</li> <li>▪ for loop</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>➤ Analysing</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interactive/Participative strategy</li> <li>➤ Flowcharts</li> </ul>	<ul style="list-style-type: none"> <li>➤ Reference books</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lab work</li> <li>➤ Misconception check</li> </ul>

SEPTEMBER	<ul style="list-style-type: none"> <li>• Lists <ul style="list-style-type: none"> <li>▪ Creation</li> <li>▪ Initialization</li> <li>▪ Manipulation</li> <li>▪ List methods</li> <li>▪ Built-in functions</li> </ul> </li> </ul>	➤ Logical thinking.	➤ Content focused	➤ Reference books	➤ Lab work
OCTOBER	<ul style="list-style-type: none"> <li>• Dictionary <ul style="list-style-type: none"> <li>▪ Key-value pair concept</li> <li>▪ Creation</li> <li>▪ Initialisation</li> <li>▪ Traversal</li> <li>▪ Updating and Deleting elements</li> <li>▪ Dictionary methods</li> <li>▪ Built-in functions</li> </ul> </li> </ul>	➤ Logical thinking ➤ Creativity	➤ Content focused learning ➤ Optimised coding	➤ Reference books	➤ Lab work ➤ Resolving Queries
NOVEMBER	<ul style="list-style-type: none"> <li>• Database concepts</li> <li>• Relational Data model <ul style="list-style-type: none"> <li>▪ Domain</li> <li>▪ Tuple</li> <li>▪ Relation</li> <li>▪ Candidate Key</li> <li>▪ Primary key</li> <li>▪ Alternate key</li> </ul> </li> <li>• SQL Advantages</li> </ul>	➤ Relational thinking ➤ Understanding	➤ Discussion method ➤ Demonstrative method	➤ Interactive panel PPT	➤ Peer review writing task
DECEMBER	<ul style="list-style-type: none"> <li>• Creating a database using MySQL</li> <li>• Data Types</li> <li>• Data Definition</li> <li>• Data Query</li> <li>• Data Manipulation</li> </ul>	➤ Analysing ➤ Reasoning	➤ Content focused	➤ Visuals	➤ Lab work
JANUARY	<ul style="list-style-type: none"> <li>• Introduction to emerging trends <ul style="list-style-type: none"> <li>▪ Artificial Intelligence</li> <li>▪ Machine Learning</li> <li>▪ Natural Language Processing</li> </ul> </li> </ul>	➤ Understanding	➤ Participative/Interactive strategy	➤ Educative visuals	➤ Seminar

	<ul style="list-style-type: none"> <li>▪ Immersive experience (AR, VR)</li> <li>▪ Robotics</li> <li>▪ Big data and its characteristics</li> <li>▪ Internet of Things (IoT)</li> <li>▪ Sensors</li> <li>▪ Smart cities</li> <li>▪ Cloud Computing and Cloud Services</li> <li>▪ Grid Computing</li> <li>▪ Block chain technology</li> </ul>				
FEBRUARY	Revision				

**Subject: Accountancy**

MONTH	UNIT	TOPIC	SUBTOPIC	LEARNING OUTCOME	ACTIVITY	PEDAGOGICAL STRATEGY
JUNE	1	Theoretical framework	Introduction to accounting, Basic accounting terms,	Knowledge and understanding of basics of accounting.	Assignment: Basic accounting terms	Lecture method
JULY	Continuation of 1	..	Theory base of accounting, fundamental accounting assumptions, systems of accounting and accounting standards, Goods and Services Tax	Application of accounting in everyday life.	Group Discussion	Lecture method
AUGUST	2	Accounting process	Recording of business transactions, Voucher and transactions, Recording of transactions: Ledger, Journal, Posting from journal to ledger.	Creative thinking and problem solving Developing Analysing	Problem solving on accounting Assignment	Interactive Content focused Lecture method
SEPTEMBER	Continuation of 2	..	Bank reconciliation statement, Need and preparation, BRS with adjusted cashbook. Depreciation, provisions and reserve, Methods of depreciation, Accounting treatment of depreciation,	Accuracy	Discussion	Problem solving method



OCTOBER	Continuation of 2	..	Accounting for bill of exchange, Bill of exchange and promissory note, Terms in bill of exchange, Accounting treatment. Trial balance and rectification of errors: objectives and preparation with balance method only, Errors: Detection and rectification	Observation	Discussion	Problem solving method
NOVEMBER	3	Financial statement of sole proprietorship from complete and incomplete records	Financial statements, Receipts and expenditure, Objectives and importance, Trading and profit and loss account and balance sheet, Preparation with adjustment	Critical thinking	Assignment	Application skill
DECEMBER	Continuation of 3	..	Incomplete records, Ascertainment of profit and loss by statement of affairs method.	Analytic thinking Creativity	Assignment	Lecture method Problem solving method
JANUARY	4	Computers in accounting	Introduction to computer and accounting information system, Introduction to operating software, utility software and application software, Automation and stages in automation.	Application skill Understanding Analysing	Assignment	Lecture method
FEBRUARY	PROJECT WORK REVISION					
MARCH	ANNUAL EXAMINATION					

**Subject: Business Studies**

MONTH	TOPIC	LEARNING OUTCOME	PEDAGOGICAL STRATEGY	RESOURCES	ACTIVITY
JUNE	<u>Nature and purpose of business</u>  Evolution and fundamentals of business, history of commerce in India Business –concept Business profession and employment Classification business and business risk	Developing and understanding basic of business studies	Lecture method	Reference book Text book Smart class	Assignment  History of commerce in India
JULY	<u>Forms of business organization</u>  Sole proprietorship, partnership, Hindu undivided family, co-operative societies, company Formation of company, choice of form of business organization  <u>Public and private and global enterprises</u>	Identification Understanding	Interactive	Smart class Text book Reference book	Debate  Seminar

	Public and private sector enterprises, forms of public sector enterprises, global enterprises	Analyzing and creativity	Lecture method	Smart class Text book Reference book	Seminar
<b>AUGUST</b>	<u><b>Business services</b></u>  Business services and types, launching, types of bank accounts, banking services Insurances, types of insurance, principles of insurance Postal services	Understanding Improving living standard	Questioning techniques	Smart class Text book Reference book	Assignment
<b>SEPT</b>	<u><b>Emerging modes of business</b></u>  E-business, concept, scope and benefits BPO and KPO  <u><b>Social responsibility of business and business ethics</b></u>  Concept of social responsibility, case for social responsibility Responsibility towards interested groups Environmental protection and business ethics	Understanding Application skill   Students will be able to identify and understanding of environment	Interactive and participative   demonstration Interactive learning	Smart class Text book Reference book   Smart class Text book Reference book	Assignments  Seminar   Assignments Seminar

<b>OCT</b>	<u>Sources of business finance</u>  Concepts of business finance Owners fund and borrowed fund and their division	Analyzing and creativity	Lecture method	Smart class Text book Reference book	Assignments
<b>NOV</b>	<u>Small business enterprises</u>  Entrepreneurship development, concept, characteristics and need Small scale enterprises as defined by MSMED Act 2006 Role of small business in India, Government schemes and agencies for small scale industries	Analyzing and creativity	interactive	Smart class Text book Reference book	Seminar Debate
<b>DEC</b>	<u>Internal trade</u>  Meaning and types of internal trade, GST Types of retail trade, large scale retailer Concept of automatic vending machine, main documents used in internal trade, terms of trade	Understanding and analyzing	Interactive and participative	Smart class Text book Reference book	Assignments Seminar

<b>JAN</b>	<u>International trade</u>  Concept of international trade Export procedure Import procedure	Understanding for foreign trade	Discussion method	Smart class Text book Reference book	Assignments Seminar
<b>FEB</b>	<b>PROJECT WORK, REVISION</b>				

**Subject: Computer Science**

MONTH	TOPIC	LEARNING OUTCOME	PEDAGOGICAL STRATEGY	RESOURCES	ACTIVITY
JUNE	<ul style="list-style-type: none"> <li>• Introduction to computer and computing. <ul style="list-style-type: none"> <li>▪ Basic components</li> <li>▪ Input/output devices</li> </ul> </li> <li>• Computer Memory <ul style="list-style-type: none"> <li>▪ Units of Memory</li> <li>▪ Primary and Secondary memory</li> <li>▪ Units of memory</li> <li>▪ Communication Bus</li> </ul> </li> <li>• Mobile System Organization <ul style="list-style-type: none"> <li>▪ Mobile processor</li> <li>▪ Memory unit</li> <li>▪ Power Management</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>➤ Evaluation</li> <li>➤ Understanding</li> </ul>	<ul style="list-style-type: none"> <li>➤ Discussion method</li> <li>➤ Learner centered</li> </ul>	<ul style="list-style-type: none"> <li>➤ Reference books</li> <li>➤ PPT</li> </ul>	<ul style="list-style-type: none"> <li>➤ Peer review writing task.</li> </ul>
JULY	<ul style="list-style-type: none"> <li>• Software Concepts <ul style="list-style-type: none"> <li>▪ System Software</li> <li>▪ Application Software</li> <li>▪ Utility Software</li> </ul> </li> <li>• Concept of operating system</li> <li>• Program Execution</li> <li>• Libraries</li> <li>• Cloud Computing</li> <li>• Parallel Computing</li> <li>• Data representation and Boolean Logic <ul style="list-style-type: none"> <li>▪ Number System</li> </ul> </li> <li>• Arithmetic Operators in Binary System</li> <li>• Encoding of characters <ul style="list-style-type: none"> <li>▪ ASCII(American standard code for Information Interchange)</li> <li>▪ ISCII(Indian standard code for information Interchange)</li> <li>▪ UNICODE(For Multilingual Computing)</li> </ul> </li> <li>• Boolean Operators <ul style="list-style-type: none"> <li>▪ AND operator</li> <li>▪ OR operator</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>➤ Understanding</li> <li>➤ Analysing</li> </ul>	<ul style="list-style-type: none"> <li>➤ Learner centred</li> <li>➤ Content focused</li> </ul>	<ul style="list-style-type: none"> <li>➤ PPT</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lab work.</li> <li>➤ Misconception check</li> </ul>

	<ul style="list-style-type: none"> <li>▪ NOT operator</li> <li>• Truth Table</li> <li>• Logic Gates</li> <li>• De Morgan's Theorems</li> </ul>				
AUGUST	<ul style="list-style-type: none"> <li>• Familiarization with python programming. <ul style="list-style-type: none"> <li>▪ Interactive and Script Mode</li> <li>▪ Structure of a program</li> <li>▪ Variables and types</li> <li>▪ Keywords, Expressions</li> <li>▪ Operators</li> <li>▪ Tokens</li> <li>▪ Indentation</li> </ul> </li> </ul>	➤ Analysing	➤ Interactive/Participative strategy	➤ Reference books	➤ Labwork
SEPTEMBER	<ul style="list-style-type: none"> <li>• Conditional and Looping constructs <ul style="list-style-type: none"> <li>▪ Flow charts</li> <li>▪ Pseudo-code</li> <li>▪ Decision tree</li> </ul> </li> <li>• Program control</li> <li>• Decision making <ul style="list-style-type: none"> <li>▪ If statement</li> </ul> </li> <li>• Iteration <ul style="list-style-type: none"> <li>▪ For loop</li> <li>▪ While Loop</li> </ul> </li> <li>• Jump statements <ul style="list-style-type: none"> <li>▪ Break statement</li> <li>▪ Continue statement</li> <li>▪ Pass statement</li> </ul> </li> </ul>	➤ Logical thinking.	➤ Content focused	➤ Reference books	<ul style="list-style-type: none"> <li>➤ Lab work</li> <li>➤ Misconception check</li> <li>➤</li> </ul>
OCTOBER	<ul style="list-style-type: none"> <li>• Strings <ul style="list-style-type: none"> <li>▪ Creation</li> <li>▪ Traversal</li> <li>▪ Operators</li> <li>▪ Methods and Built in functions</li> <li>▪ State and Transition</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>➤ Logical thinking</li> <li>➤ Creativity</li> </ul>	<ul style="list-style-type: none"> <li>➤ Content focused learning</li> <li>➤ Optimised coding</li> </ul>	➤ Reference books	➤ Lab work
NOVEMBER	<ul style="list-style-type: none"> <li>• Lists <ul style="list-style-type: none"> <li>▪ Creation</li> <li>▪ Comparison</li> <li>▪ Operations on list</li> <li>▪ Built-in functions</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>➤ Relational thinking</li> <li>➤ Understanding</li> </ul>	<ul style="list-style-type: none"> <li>➤ Discussion method</li> <li>➤ Demonstrative method</li> </ul>	➤ Interactive panel PPT	<ul style="list-style-type: none"> <li>➤ Peer review writing task</li> <li>➤ Lab Work</li> </ul>



	<ul style="list-style-type: none"> <li>• Deletion</li> <li>• Sorting <ul style="list-style-type: none"> <li>▪ Bubble sort</li> <li>▪ Insertion sort</li> </ul> </li> </ul>				
DECEMBER	<ul style="list-style-type: none"> <li>• Tuples and Dictionary <ul style="list-style-type: none"> <li>▪ Creation</li> <li>▪ Operations on tuple</li> <li>▪ Key-value pair concept</li> <li>▪ Traversal</li> <li>▪ Updation and Deletion</li> <li>▪ Built-in functions</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>➤ Analysing</li> <li>➤ Reasoning</li> </ul>	<ul style="list-style-type: none"> <li>➤ Content focused</li> </ul>	<ul style="list-style-type: none"> <li>➤ Visuals</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lab work</li> </ul>
JANUARY	<ul style="list-style-type: none"> <li>• Cyber Safety <ul style="list-style-type: none"> <li>▪ Internet</li> <li>▪ Cyber crime</li> </ul> </li> <li>• Cyber forensics</li> <li>• IT ACT 2000</li> <li>• Network security Threats <ul style="list-style-type: none"> <li>▪ DoS Attacks</li> <li>▪ Malware</li> <li>▪ Viruses</li> <li>▪ Worms</li> <li>▪ Trojans</li> </ul> </li> <li>• Identity verification</li> </ul>	<ul style="list-style-type: none"> <li>➤ Understanding</li> </ul>	<ul style="list-style-type: none"> <li>➤ Participative/ Interactive strategy</li> </ul>	<ul style="list-style-type: none"> <li>➤ Educative visuals</li> </ul>	<ul style="list-style-type: none"> <li>➤ Seminar</li> </ul>
FEBRUARY	Revision				

**Subject : English**

MONTH	TOPIC	LEARNING OBJECTIVES SHORT TERM	PEDAGOGICAL PRACTICES	LEARNING OUTCOMES LONG TERM
JUNE	The Portrait of a Lady	<p>-make the students identify the genre to which the story belongs. - to understand the techniques used by the author - to enhance vocabulary -to strengthen family bonds - to enable them to comprehend the cultural background of the story. -to facilitate making connections between similar situations in different storylines/life experiences</p>	<p>Group Discussion on The Portrait Of A Lady is a reminder about a growing distance between the young and the older generation. Group activity comprising all range of learners. One group comprising 6 learners-</p>	<p>They would develop their optimistic attitude towards life amidst many struggles. Will be able to develop an attitude to become more independent in thought and action, responsible and cooperative, understanding and tolerance, improved working relations respect for identities in relation to other people.</p>
	A photograph	<p>to encourage the students to appreciate poetry and read aloud with proper intonation</p> <p>-to prepare the students for poetic forms and adept them with the figures of speech, rhyme and rhythm</p> <p>-to read and recognize the purpose of economy of words and the</p>	<p>A comparative study of the prose The Portrait of a Lady and the poem A Photograph. The learners would discuss in their groups and draw a comparative analysis and present the synopsis of the discussion in the class. Group Activity</p>	<p>the students would be able to grasp the theme and meaning of the poem. They would be able to read the poem with proper tone and rhyme and develop an interest in poetry. Their vocabulary would be strengthened. They would be able to draw a comparative study between human life and nature.</p>

	Note making	<p>hidden pathos and nuances of the lines, correlating them with author's background and personal experiences- to build up didactics, empathy and sympathy with the loss of the speaker</p> <p>To summarize information from different written text, reconstructing arguments and accounts in a coherent presentation.</p> <p>-To express spontaneously, concisely and precisely, differentiating finer shades of significance even in the most complex situations</p> <p>-To express ideas with extra information and complexity, fluently and without difficulty in sentence construction</p>	<p>For all range of learners comprising three students in one team-</p> <p>Group comprehension comprising all range of learners(</p> <p>PPT demonstrating the technique and art of note making</p>	<p>They would be able to study a photograph</p> <p>They would be able to use the note taking suggestions to develop good notes based on classroom discussions</p>
	Advertisement	<p>to enable the students to do public announcements</p> <p>to use the content in very brief manner</p> <p>to know the format</p> <p>to learn to write different types of advertisement.</p>	<p>group activity shows the tips of writing an advertisement ppt</p>	<p>They would be able to write the different kinds of advertisement for the classified columns.</p>
JULY	Discovering Tut	<p>To enhance familiarizing with specific background information of author / book excerpt / history of Tutankhamun.</p>	<p>Pair Activity (for all range of learners</p> <p>Activity: research with</p>	<p>The students would be able to grasp the theme and meaning of the prose. Their critical and creative thinking skills would be enhanced.</p>

		<p>–to guide the students to relate the characteristics of literature to larger cultural and human values</p> <p>-identify the techniques used by the writer.</p>	<p>pictures and present it in the form of an article.</p> <p>PPT</p>	<p>They would be able to derive the moral values.</p> <p>They will be ready to accept the reality of life.</p> <p>Their vocabulary would be enriched.</p> <p>They would enhance their writing. s</p>
	The Laburnum Top	<p>to read and comprehend the poem</p> <p>to know about the poet and his other works</p> <p>.</p>	<p>Audio Visual Lesson</p> <p>Discussion about the poem</p> <p>Summarizing the poem</p>	<p>The learners would be able to differentiate between annotation, outline notes, column notes, mind maps and summary notes from a text.</p>
	The Summer of the Beautiful Whit Horse	<p>To enhance familiarizing with specific background information of author / book excerpt / history - To facilitate an attitude to become honest and trustworthy in thought and action, responsible cooperative, understanding and tolerance, respect for national identities in relation to other people</p> <p>- democratic citizenship. [global aim]</p> <p>. Recognize Marginalization.</p> <p>-to recognize the technique of repetition as an element of style.</p>	<p>Group Discussion</p> <p>Smart lesson</p> <p>Group work.</p> <p>Pair work for Vocabulary Enrichment.</p>	<p>The learner would be able to read and comprehend</p> <p>would read and enjoy a fiction</p> <p>would recognize the techniques and the style used by the narrator</p>

	Postermaking	<p>to learn To express ideas aesthetically and relevantly with definition in purpose, expressions, grammar usage, format usage, relevant vocabulary</p> <p>to announce a cultural show</p> <p>to create awareness among the public</p> <p>to warn against some danger.</p> <p>to advertise some project,</p> <p>to learn to write invitations formal and Informal</p> <p>to know the format .</p>	<p>Posters</p> <p>PPT for tips</p> <p>Group discussion shows the newspaper clippings</p> <p>group Activity</p> <p>writing posters</p> <p>Group Activity</p> <p>Collect invitations of different types on different occasions</p> <p>Recapitulation</p> <p>Group activity</p> <p>hand outs.</p>	<p>would be learned to make a poster</p> <p>Poster Making for all range of learners.</p> <p>Visual aid</p> <p>would write the different types of posters.</p> <p>would know the format</p> <p>would write invitations Formal and Informal.</p> <p>would complete the grammar exercises based on tenses</p>
AUGUST	We're not afraid to die	<p>-To allow a problem solving: identifying the problem; considering the options; weighing the pros and cons of each option; reaching a decision To facilitate making connections between similar situations in different storylines/life experiences</p>	<p>Class Reading with suitable expression, pronunciation and intonation.</p> <p>(Individual Activity)</p> <p>(For all range of learners)</p>	<p>The learners would be able to enhance their problem solving skills.</p> <p>They would be able to inculcate the values of determination and will power</p>

	The Voice of the rain	to recognize the purpose of economy of words and the nuances of the lines that highlights the cyclic nature of rain and appreciates the diligence and divine quality of the speaker	Recitation and self study group work of 3 on poetry writing on the wind, sun, moon or snow-highlighting the pride in their narration for all range of learners comprising-	The students would be able to grasp the theme and meaning of the poem. They would be able to read the poem with proper tone and rhyme and develop an interest in poetry. Their vocabulary would be strengthened. They would be able to draw a comparative study between human life and nature.
	The Address	To help learners distinguish different perspectives; analyzing them; drawing conclusion/s -To encourage the uncovering of motives absorbing didactics	Pre Reading Activity Open discussion Debate Smart lesson	Their Reading skills would be developed
	Reply to the Invitation	to write a reply to the formal and informal invitation	Group activity Pair work	Would write a reply to the invitation
	Speaking and Listening Grammar: Clauses			
SEPTEMBER	Landscape of the Soul	To read and Comprehend To know about various types of paintings to learn about the European and the Chinese Painting. To enrich the Vocabulary	Smart lesson Interactive session Group activity Vocabulary Enrichment and the Comprehension	Would understand what is real painting. would learn the value of Appreciation.

	Childhood	<p>To read and Enjoy the Poem</p> <p>To make a comparison with the childhood and the adulthood to know about the poet and the central theme</p>	<p>Audio visual Lesson</p> <p>Paraphrasing</p> <p>Discussion</p> <p>Recitation</p>	<p>Would learn about the qualities of being a child</p> <p>would understand the difference between the adult and child perspective.</p>
	The Ailing Planet.	<p>To facilitate making connections between similar situations in different storylines/life experiences</p> <p>To read and recognize the purpose of human loss and the hidden pathos and nuances of the lines, correlating them with personal experiences- to build up didactics, empathy and sympathy with the loss of the speaker and the final resigned acceptance and optimism</p> <p>To sensitize learners to the imminent issues of declining health of planet Earth</p>	<p>slogan Writing on Go Green</p> <p>For all range of learners.</p> <p>PPT</p> <p>Newspaper search on various articles on environment</p>	<p>The Learners would be able to sensitize themselves towards the earth and environment.</p> <p>They would inculcate the values of Leadership and contribute to make our Earth green</p>
	Article Writing	<p>to write an article effectively</p> <p>to enable the learner to write an article both for the school magazine and the newspaper,</p>	<p>Open discussion</p> <p>gather information</p> <p>organize the ideas</p> <p>use CODER</p>	<p>would write an article</p>



	<p>Report Writing</p> <p>Formal Letter</p> <p>Grammar:Modals</p>	<p>to write a Report</p> <p>to know the Format</p> <p>To write a formal Letter</p> <p>Letter to the Editor.</p> <p>to thorough with the format.</p>	<p>PPT for tips</p> <p>group discussion</p> <p>Use the CODER</p> <p>Recalls the format.</p>	<p>Would write a Report</p> <p>Would write a Letter</p>
OCTOBER	<p>Ranga's marriage</p> <p>The Browning Version</p>	<p>-to guide the students to relate the characteristics of literature to larger cultural and human values.</p> <p>-To facilitate making connections between similar situations in different storylines/life experiences.</p> <p>-To appreciate the timeless significance of the issue of marriage institution, role of English and gender stereotyping</p> <p>To facilitate making connections between similar situations in different storylines/life experiences through the genre of drama. Understanding the universal theme of teacher-student relationship and the sanctity of it.</p>	<p>Listening Activity for all range of Learners to note their progress and as training ground for</p> <p>-PPT presenting the synopsis of the story</p> <p>PPT on gender sensitivity</p> <p>their ASL</p> <p>Activity: Listen to an Article about the issue of marriage and gender stereotyping and complete the worksheet</p> <p>Theatrical presentation by a group of three students comprising –</p>	<p>The students would be able to effectively provide a synopsis of the story. They will be able to analyze the values and thought process of the story. Positive values and attitudes would be inculcated in the students. They would be able to appreciate the language, content and style of the prose. Vocabulary would be enriched. Their Listening skills would be enhanced.</p> <p>The learners will be able to stimulate language development and increase the students' ability to write spontaneously. They would be able to respond to a personal dilemma. Their vocabulary would be enriched. The analytical skills would be</p>

	<p>The Adventure</p> <p>Letter writing</p>	<p>to read and comprehend to know more about the adventure</p> <p>to write a letter of complaint to write a letter of enquiry to write a letter of order</p>	<p>Smart lesson</p> <p>Recapitulation</p>	<p>enhanced</p> <p>The reading skills would be enhanced</p> <p>Would write letters</p>
NOVEMBER	<p>Mother's Day</p> <p>Father to Son</p>	<p>To facilitate making connections between similar situations in different storylines/life experiences through the genre of theatre/drama that is more credible and realistic to comprehend the mother's stereotype and understand her significant role in family bonding-to empathize with her problems and seek resolution .</p> <p>To read and recognize the purpose of economy of words and the hidden pathos and nuances of a precious father-child relationships that is crumbling , correlating with personal experiences- to build up didactics, empathy and sympathy with the loss of the father</p>	<p>Write a Script and present a Role Play on Mother's Day. For all range of learners in a group of six comprising-</p> <p>An analysis of the poem Father to Son through a Power Point presentation. For all range of learners in one group comprising six students-</p> <p>Audi-visual</p>	<p>The learners would be able to develop their basic skills of language. They would develop their reading skills and listening skills They would be able to comprehend the role of a mother and inculcate</p> <p>To facilitate making connections between similar situations in different storylines/life experiences. To help learners distinguish different perspectives; analyzing them; drawing conclusion/s. The learners would unfold their logical thinking skills values of respect and obedience.</p>

	<p>Job Application and C.V</p> <p>Factual description</p> <p>Grammar:Determiners</p>	<p>to learn to write a job application to Prepare a good C.V</p> <p>-to establish a clear understanding of determiners</p> <p>-to enable the learners to identify the types of determiners and use them</p>	<p>demonstration of the poem.</p> <p>work sheets</p> <p>picture study</p> <p>audio visual lessons</p> <p>Recapitulation</p> <p>group activity</p> <p>hand outs</p>	<p>Would write a job application and prepare a C.V</p> <p>The learners would be able to identify the determiners and use the appropriately.</p>
DECEMBER	<p>Albert Einstein at School</p> <p>The Silk Road</p> <p>GrammarExercises</p>	<p>-To enhance familiarizing with specific background information of author / book excerpt / history</p> <p>-To facilitate making connections between similar situations in different storylines/life experiences.</p> <p>to read and comprehend</p> <p>to enrich the vocabulary</p>	<p>Write the contents of short story in the form of note making.</p> <p>(Individual Activity)</p> <p>For all range of learners to note progress</p> <p>audio visual class discussion and summarizing the lesson</p>	<p>The students would be able to express their understanding through discussions.</p> <p>They would skim and scan the words according to their meaning.</p> <p>They would enhance their reading as well as writing skills</p> <p>Reading skills as well as writing skills enhanced.</p>
JANUARY	<p>The Ghat of the only World</p>	<p>to read and comprehend</p> <p>to enrich the vocabulary.</p> <p>Poster Making for all range of learners.</p> <p>Visual aid</p>	<p>Smart lesson</p>	<p>Reading and comprehension skills would be enhanced.</p>

	Birth	<p>To allow a problem solving: identifying the problem; considering the options; weighing the pros and cons of each option; reaching an empathetic decision with the protagonist</p> <p>-To facilitate making connections between similar situations in different storylines/life experiences</p> <p>-To help learners distinguish different perspectives; analyzing them; drawing conclusion/s</p> <p>-To encourage the uncovering of motives; absorbing didactics</p>	<p>Audio-visual demonstration of the poem.</p> <p>PPT</p>	<p>Reading and comprehension skills would be enhanced</p> <p>Reading and Comprehension skills would be developed</p>
FEBRUARY	The Tale of the Melon City. Speaking and listening	To read and recognize the purpose of economy and the hidden satire, irony and pun in the nuances - to build up didactics on the role of democracy in a state	<p>Research on the literary laureate Vikram Seth and relate the poem to one of his other poems.</p> <p>Group activity comprising all range of learners in a group of six students-</p> <p>C2-C1 – 2 students</p> <p>B2-B1 – 2 students</p> <p>Audio- visual presentation.</p>	<p>The students would be able to grasp the theme and meaning of the poem.</p> <p>They would be able to read the poem with proper tone and rhyme and develop an interest in poetry.</p> <p>They would raise their concept of establishing inner as well as outer peace and sensitize themselves .</p>
MARCH	REVISION	ANNUAL EXAMINATION		

**Annual Pedagogical Plan 2020-2021**

**Class XII**

**Subject: Biology**

MONTH	TOPICS / SUBTOPICS	PEDAGOGICAL STRATEGIES	ACTIVITY/ PRACTICALS	ASSESSMENT STRATEGIES	LEARNING OUTCOME
JUNE	<p><b>I. Electrostatics</b>  <b><u>1.Electric charges and fields,</u></b>            Electric charges, Coulomb's law, Superposition principle and continuous charge distribution electric field –due to point charge, electric field lines, dipole ,its electric field, torque on a dipole in uniform electric field, electric flux ,Gauss's theorem and its applications.</p> <p><b><u>2.Electrostatic potential and capacitance</u></b>            Electric potential-due to point charge, a dipole and system of charges, potential difference, equipotential surfaces.  <b>FIRST MID-TERM EXAMINATION</b>            Electric potential energy of- a system of two point charges, dipole in an electrostatic fields,</p>	<p>Interactive learning, discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class.</p> <p>Interactive learning, discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class.</p>	<p><b>1.To prove Ohm's law</b></p>	<p>Oral test Test paper. MCQ. Solving problems</p> <p>Oral test Test paper. MCQ. Solving problems</p>	<ul style="list-style-type: none"> <li>States and formulates the Coulomb's law and solves numerical problems related to it.</li> <li>Explains electric field, intensity and its physical significance.</li> <li>Formulates the electric field due to a system of charges and solves numerical problems related to it.</li> <li>Explains the properties of electric field lines.</li> <li>Understanding electric flux, electric dipole, torque.etc.</li> <li>Acquires the knowledge of solving problem using the given information.</li> </ul> <ul style="list-style-type: none"> <li>Differentiate between electrostatic potential and potential difference.</li> <li>Understands equipotential surfaces.</li> </ul>

	<p>conductors and insulators, dielectrics and electric polarisation, capacitors, its combination, capacitance of parallel plate capacitor, energy stored in a capacitor.</p> <p><b>II. Current Electricity</b>  <b>3. Electric current</b>          Electric current, drift velocity, mobility, Ohm's law, electrical energy and power.</p>	<p>Interactive learning, discussion, problem solving. Deriving mathematical relations. Smart class.</p>			<ul style="list-style-type: none"> <li>Understands energy stored in a capacitor.</li> <li>Plots graph showing the variations of interrelated quantities.</li> <li>Acquires the knowledge of solving problem using the given information.</li> </ul>
JULY	<p><b>3. Electric current (continuation)</b>          Resistivity, carbon resistors, its combination, its temperature dependence, internal resistance of a cell, potential difference, emf of a cell, combination of cells, Kirchhoff's law and applications, Wheatstone's bridge, metre bridge, potentiometer and its uses</p> <p><b>III. Magnetic Effects of current &amp; Magnetism</b></p> <p><b>4. Moving charges and magnetism</b>          Concept of magnetic field, Oersted experiment, Biot-Savart law, its application, Ampere's law - its applications, force on a moving</p>	<p>Interactive learning, discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class.</p>	<p><b>2. Metre bridge - resistivity of wire</b></p> <p><b>3. Metre bridge - Series combination</b></p>	<p>Oral test          Test paper.          MCQ.          Solving problems</p> <p>Oral test</p>	<ul style="list-style-type: none"> <li>Understands more about electric current.</li> <li>Explains resistivity and factors affecting it.</li> <li>Able to conduct experiments to prove Ohm's law.</li> <li>Applies the knowledge of Kirchhoff's law to solve complex circuits.</li> <li>Able to draw labelled diagrams.</li> <li>Plots graph showing the variations of interrelated quantities.</li> <li>Acquires the knowledge of solving problem using the given information.</li> </ul> <ul style="list-style-type: none"> <li>Understands more about magnetism.</li> <li>Understands Biot Savart's law and Ampere's law and can apply it to solve problems.</li> <li>Compares the fields due to electric and magnetic dipoles</li> <li>Explains the construction and the working of</li> </ul>

	<p>charge in a uniform magnetic and electric fields. cyclotron, force on a current carrying conductor, force between two parallel current carrying conductors, torque experienced by a current loop in uniform magnetic field, moving coil galvanometer and its conversion.</p> <p><b>FIRST TERMINAL EXAMINATION</b></p>	<p>Interactive learning, discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class.</p>	<p><b>4. Metre bridge-parallel combination</b></p>	<p>Test paper. MCQ. Solving problems</p>	<p>moving coil galvanometer and defines current and voltage sensitivities.</p> <ul style="list-style-type: none"> <li>Explains the conversion of ammeter and galvanometer to voltmeter and solves problems related to it.</li> <li>Plots graph showing the variations of interrelated quantities.</li> <li>Acquires the knowledge of solving problem using the given information.</li> </ul>
AUGUST	<p><b>5. Magnetism and matter</b> Current loop as a magnetic dipole, its dipole moment, magnetic dipole moment of a revolving electron, magnetic field intensity due to a magnetic dipole, torque on a dipole, Bar magnet as an equivalent solenoid, magnetic field lines, earth's magnetic field, Para, dia and ferro-magnetic substances, electromagnets, permanent magnets.</p> <p><b>IV. Electromagnetic Induction &amp; Alternating Current</b> <b>6. Electromagnetic induction</b> . Electromagnetic induction, Faraday's law, induced emf and current, Lenz's law, eddy currents, self and mutual induction.</p>	<p>Interactive learning, discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class.</p> <p>Interactive learning, discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class.</p>	<p><b>5. Potentiometer to compare emf of two cells.</b></p> <p><b>6. Potentiometer-internal resistance of a cell.</b></p>	<p>Oral test Test paper. MCQ. Solving problems</p> <p>Oral test Test paper. MCQ. Solving problems</p>	<ul style="list-style-type: none"> <li>States Gauss's law in magnetism.</li> <li>Distinguishes the types of magnetic substances.</li> <li>Explains the properties of magnetic substances.</li> <li>Understands Curie's law.</li> <li>Defines magnetic flux and its unit.</li> <li>States and explains Faraday's law of electromagnetic induction and solves problems related to it.</li> <li>Explains eddy current and its applications, cites examples in various devices.</li> <li>Gains the concept of sinusoidal variation of emf induced in it and solves numerical problems related to it.</li> </ul>



	<b>7. Alternating Current</b> Alternating Currents, peak and rms value, reactance, Impedance, LC oscillations, LCR series circuit, resonance, power in ac circuits, wattless current	Discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class.		Oral test Test paper. MCQ. Solving problems	<ul style="list-style-type: none"> <li>Understands alternating currents and emf.</li> <li>Understands the Q factor and applies the knowledge in day to day life.</li> <li>Plots graph showing the variations of interrelated quantities.</li> <li>Acquires the knowledge of solving problem using the given information.</li> </ul>
SEPTEMBER	<b>SECOND MID-TERM EXAMINATION</b> <b>V. Electromagnetic Waves.</b> <b>8. Electromagnetic waves</b> Displacement current, EM waves and their characteristics, electromagnetic spectrum and its uses <b>VI. Optics</b> <b>9. Ray optics</b> Reflection, spherical mirrors, mirror formula, refraction, TIR, its applications, refraction at spherical surfaces, lens formula, power, combination of lenses, refraction and dispersion through a prism, scattering of light and applications, microscopes and astronomical telescopes and their magnifying powers. <b>10. Wave Optics</b> Wavefront, Huygens's principle- reflection	Interactive learning, discussion, problem solving. Deriving mathematical relations. Smart class.  Discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class.  Interactive learning, discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class.	<b>7. Galvanometer - half deflection method</b>  <b>8. Galvanometer - conversion to voltmeter</b>  <b>9. Concave mirror</b>  <b>10. Convex lens</b>	Oral test MCQ. Solving problems  Oral test Test paper. MCQ. Solving problems	<ul style="list-style-type: none"> <li>Understands about electromagnetic waves.</li> <li>Identifies the uses of electromagnetic waves.</li> <li>Understands and recognises the difference between reflection and refraction.</li> <li>Apply the concepts related to optics.</li> <li>Design a telescope.</li> <li>Acquires the knowledge of solving problem using the given information.</li> </ul>

OCTOBER	<p><b><u>10. Wave Optics (continuation)</u></b> Interference –coherent and incoherent addition, Young’s double slit experiment,diffraction,resolving power of microscopes and telescopes. Polarisation.</p> <p><b><u>VII.Dual nature of Matter</u></b> <b><u>11. Dual nature of matter</u></b> Dual nature of radiation ,photoelectric effect,Hertz and Lenard’s observations,Einstein’s equation-particle nature of light,matterwaves,wave nature of light,deBroglie relation ,Davisson-Germer experiment.</p> <p><b><u>VIII. Atoms and Nuclei</u></b> <b><u>12. Atoms</u></b> Alpha particle scattering experiment,Rutherford model of atom, Bohr model, energy levels, hydrogen spectrum</p> <p><b><u>SECOND-TERMINAL EXAMINATION</u></b></p>	<p>Interactive learning, discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class.</p> <p>Discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class.</p> <p>Interactive learning, discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class.</p>	<p><b>11.Concave lens</b></p> <p><b>12.Concave lens</b></p> <p><b>13. prism</b></p> <p><b>14. Travelling microscope</b></p>	<p>Oral test Test paper. MCQ. Solving problems</p> <p>Oral test Test paper. MCQ. Solving problems</p> <p>Oral test Test paper. MCQ. Solving problems</p>	<ul style="list-style-type: none"> <li>• Differentiates between diffraction and interference.</li> <li>• Understands the wave nature of light.</li> <li>• Understands polarisation etc.</li> <li>• Acquires the knowledge of solving problem using the given information.</li> <li>• Defines photoelectric effect and cites examples.</li> <li>• Explains the photo electric effect and wave theory of light.</li> <li>• Understands the Einstein’s photo electric equation.</li> <li>• Explains the wave nature of matter.</li> <li>• Acquires the knowledge of solving problem.</li> <li>• Differentiates the Emission and Absorption atomic spectra of Hydrogen atom.</li> <li>• Identifies various lines of Hydrogen spectrum</li> <li>• Understands Bohr atom model.</li> </ul>
	<p><b><u>13. Nuclei</u></b> Composition and size of nucleus, atomic masses, isotopes, isobars; isotones. Radioactivity ,alpha,</p>	<p>Interactive learning, discussion, problem solving.</p>		<p>Oral test Test paper. MCQ. Solving</p>	<ul style="list-style-type: none"> <li>• Distinguishes isotopes, isobars and isotones in terms of nuclear constituents and cites examples.</li> <li>• Understands Alpha, Beta and Gamma</li> </ul>

NOVEMBER	<p>beta and gamma particles/rays and their properties; radioactive decay law. Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion.</p> <p><b>IX. Electronic Devices</b>  <b>14. Semiconductors</b> Energy bands in conductors, semiconductors and insulators, Semiconductor diode - I-V characteristics in forward and reverse bias, diode as a rectifier; Special purpose p-n junction diodes: LED, photodiode, solar cell and Zener diode and their characteristics, zener diode as a voltage regulator.</p>	<p>Plotting graphs. Deriving mathematical relations. Smart class.</p> <p>Interactive learning, discussion, problem solving. Plotting graphs. Deriving mathematical relations. Smart class.</p>	15. PN junction diode	<p>problems</p> <p>Oral test Test paper. MCQ. Solving problems</p>	<p>decays.</p> <ul style="list-style-type: none"> <li>Understands the concepts of mass defect and nuclear binding-energy using Einstein's mass-energy relation and solves numerical problems.</li> <li>Understands the semiconductor devices.</li> <li>Plot VI characteristics.</li> <li>Acquires the knowledge to perform experiments using semiconductor devices.</li> </ul>
DECEMBER					REVISION And MODEL EXAMS
JANUARY					REVISION And Practical EXAMS
FEBRUARY					REVISION And MODEL EXAMS
MARCH					BOARD EXAMS

**Subject: Chemistry**



AUGUST	>Pseudo order reaction >Effect of temp on reaction rate >Collision theory >Effect of catalyst  >SURFACE CHEMISTRY >Adsorption >Catalysis >Adsorption theory >Shape selective catalysis >Enzyme catalysis >Colloids-its classification >Preparation of colloidal solution >Properties of colloidal solution >Emulsions  GENERAL PRINCIPLES & PROCESSES OF ISOLATION OF ELEMENTS >Occurrence of metals >Extraction of metals >Thermodynamical principles of metallurgy >Ellingham diagram >Electrochemical principles of metallurgy >Refining THE p-BLOCK ELEMENTS GROUP 16 ELEMENTS >Dioxygen >Simple Oxides >Ozone >Allotropes of Sulphur	>Evaluation >Understanding   >Understanding >Analysing   >Understanding >Evaluation	>Content focused >Demonstration method   >Discussion method >Learner centered   >Lecture method	>Library >Visuals   >Reference book >PPT   >Interactive panel >Library	>Numerical solving >Lab work   >Seminar >Test paper   >Peer review writing task >Test paper

SEPTEMBER	>Sulphur Dioxide >Oxoacids of Sulphur >Sulphuric acid GROUP 17 ELEMENTS >Chlorine >HCl >Oxoacids of Halogens >Interhalogen Compounds GROUP 18 ELEMENTS	>Understanding >Evaluation	>Lecture method	>Library >PPT	>Test paper
	THE d AND f – BLOCK ELEMENTS >Position in the Periodic Table >Electronic configurations of d – block elements >General properties of Transition Elements >The Inner Transition Elements >The Lanthanoids >The Actinoids > Some Applications of d and f block elements	>Analysing	>Interactive/Participative method	>Reference book	>Numerical solving >Test paper
	CO ORDINATION COMPOUNDS >Important terms pertaining to coordination compounds >Classification of Ligands >Werner's Theory >Nomenclature >isomerism >Bonding >Stability				



OCTOBER	>Coordination compounds in daily life  HALOALKANES AND HALOARENES Haloalkanes >Nomenclature >Nature of C-X bond >Physical and Chemical Properties >Mechanism of Substitution Reaction >Optical Rotation Haloarenes > Nature of C-X bond >Substitution Reactions >Uses and Environmental Effects of Polyhalogen compounds	>Analysing	>Participative strategy	>Reference book	>Test paper >Lab work
	ALCOHOLS, PHENOLS AND ETHERS Alcohols >Nomenclature >Preparation >Physical and Chemical Properties >Identification >Mechanism of Dehydration >Uses with Special Reference to Methanol and Ethanol Phenols	>Analysing	>Participative strategy	>Reference book	>Test paper >Lab work



<ul style="list-style-type: none"> <li>&gt;Nomenclature</li> <li>&gt;Preparation</li> <li>&gt;Physical and Chemical Properties</li> <li>&gt;Acidic nature</li> <li>&gt;Electrophilic Substitution Reactions</li> <li>&gt;Uses of Phenols</li> </ul> <p>Ethers</p> <ul style="list-style-type: none"> <li>&gt;Nomenclature</li> <li>&gt;Preparation</li> <li>&gt;Physical and Chemical Properties</li> <li>&gt;Uses</li> </ul> <p>ALDEHYDES, KETONES AND CARBOXYLIC ACIDS</p> <p>Aldehydes and Ketones</p> <ul style="list-style-type: none"> <li>&gt;Nomenclature</li> <li>&gt;Nature of CO group</li> <li>&gt;Preparation</li> <li>&gt;Properties</li> <li>&gt;Mechanism of Nucleophilic Addition</li> <li>&gt;Uses</li> </ul> <p>Carboxylic Acids</p> <ul style="list-style-type: none"> <li>&gt;Nomenclature</li> <li>&gt;Acidic Nature</li> <li>&gt;Preparation</li> <li>&gt;Properties</li> <li>&gt;uses</li> </ul>	<ul style="list-style-type: none"> <li>&gt;Analysing</li> </ul>	<ul style="list-style-type: none"> <li>&gt;Participative strategy</li> </ul>	<ul style="list-style-type: none"> <li>&gt;Reference book</li> <li>&gt;Interactive panel</li> </ul>	<ul style="list-style-type: none"> <li>&gt;Lab work</li> <li>&gt;Numerical solving</li> <li>&gt;Test paper</li> </ul>
	<ul style="list-style-type: none"> <li>&gt;Analysing</li> </ul>	<ul style="list-style-type: none"> <li>&gt;Participative strategy</li> </ul>	<ul style="list-style-type: none"> <li>&gt;Interactive panel</li> </ul>	<ul style="list-style-type: none"> <li>&gt;Numerical solving</li> <li>&gt;Lab work</li> <li>&gt;Test paper</li> </ul>

NOVEMBER	<p>ORGANIC COMPOUND CONTAINING NITROGEN</p> <p>Amines</p> <ul style="list-style-type: none"> <li>&gt;Nomenclature</li> <li>&gt;Classification</li> <li>&gt;Structure</li> <li>&gt;preparation methods</li> <li>&gt;Properties</li> <li>&gt;Identification of Primary, Secondary and Tertiary Amines</li> </ul> <p>Cyanides and Isocyanides</p> <p>Diazonium Salts</p> <ul style="list-style-type: none"> <li>&gt;Preparation</li> <li>&gt;Chemical Reactions</li> <li>&gt;Importance in Synthetic Organic Chemistry</li> </ul>	>Understanding	>Lecture method	>Visuals	>Lab work
	<p>BIOMOLECULES</p> <p>Carbohydrates</p> <ul style="list-style-type: none"> <li>&gt;Classification</li> <li>&gt;Monosaccharides</li> <li>&gt;D-L configurations</li> <li>&gt;Polysaccharides</li> <li>&gt;Importance of Carbohydrates</li> </ul> <p>Proteins</p> <ul style="list-style-type: none"> <li>&gt;Amino acids</li> <li>&gt;Peptide Bond</li> <li>&gt;Proteins</li> <li>&gt;Structutres</li> <li>&gt;Denaturation of Proteins</li> <li>&gt;Enzymes</li> </ul>				
		>Analysing	>Demonstration method	>PPT >Reference book	>Test paper

	>Hormones Vitamins >Classification and Functions Nucleic Acids DNA and RNA				
	POLYMERS >Copolymerization >Important Polymers >Natural and Synthetic Polymers >Biodegradable and Non-biodegradable Polymers				
	CHEMISTRY IN EVERYDAY LIFE Chemicals in Medicines >Analgesics >Tranquilizers >Antiseptics >Disinfectants				
DECEMBER					
JANUARY	>Antibiotics >Antacids >Antihistamines				
FEBRUARY	>Antifertility Drugs Chemicals in Food >Preservatives				
MARCH	>Artificial Sweetening Agents >Antioxidants Cleansing Agents >Soaps >Detergents >Cleansing Action				

	REVISION AND FIRST MODEL EXAM				
	REVISION AND SECOND MODEL EXAM				
	REVISION AND THIRD MODEL EXAM				
	BOARD EXAM				

**Subject: Economics**

MONTH	TOPIC	LEARNING OUTCOME	PEDAGOGICAL STRATEGY	RESOURCES	ACTIVITY
JUNE	<ul style="list-style-type: none"> <li>• National income and related aggregates</li> <li>➤ National Income aggregates</li> <li>➤ Circular flow of income</li> <li>➤ Methods of calculating National Income</li> <li>➤ GDP and Welfare</li> <li>• Development experience (1947-90) and economic</li> </ul>	<ul style="list-style-type: none"> <li>• Understanding the basic concepts of macroeconomics</li> <li>• Familiarizing the methods of calculating national income</li> <li>• Examine the concept of GDP and welfare</li> <li>• Understanding the development process in India after independence</li> </ul>	<ul style="list-style-type: none"> <li>• Concept mapping</li> <li>• Questioning technique</li> <li>• Deductive method</li> <li>• Discussion method</li> <li>• Interactive lecture method</li> </ul>	<ul style="list-style-type: none"> <li>• Reference books</li> <li>• Black board</li> <li>• Smart class</li> <li>• Smart class</li> <li>• Reference books</li> <li>• PPT</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment: basic concepts of national income</li> <li>• Problem solving on national income</li> <li>• Assignment: New Economic Reforms 1991</li> </ul>

	reforms since 1991 ➤ State of Indian economy on the eve of Independence ➤ Common goals of five year plans ➤ Main features, problems and policies of agriculture, industry and foreign trade.	<ul style="list-style-type: none"> <li>Analyzing the problems of various sectors under British rule</li> <li>evaluating the five year plans</li> </ul>			<ul style="list-style-type: none"> <li>Seminar on globalization</li> </ul>
JULY	<ul style="list-style-type: none"> <li>development experience (1947-90) and economic reforms since 1991</li> <li>➤ economic reforms since 1991</li> <li>➤ demonetization and GST</li> </ul> <ul style="list-style-type: none"> <li>Money and banking</li> </ul>	<ul style="list-style-type: none"> <li>Critical thinking</li> <li>Examining the impact of GST and Demonetization</li> </ul> <ul style="list-style-type: none"> <li>Recognize the process of credit creation by commercial banks</li> </ul>	<ul style="list-style-type: none"> <li>Discussion method</li> <li>Interactive/participative strategy</li> </ul> <ul style="list-style-type: none"> <li>Explanation technique</li> <li>Flow chart</li> <li>Discovery method</li> </ul>	<ul style="list-style-type: none"> <li>Smart class</li> <li>Reference books</li> <li>Newspaper clippings</li> <li>E-Resources</li> </ul> <ul style="list-style-type: none"> <li>Smart class</li> </ul>	<ul style="list-style-type: none"> <li>Assignment on demonetization</li> <li>Seminar on GST</li> </ul> <ul style="list-style-type: none"> <li>Field visit on nearby commercial banks</li> </ul>

	<ul style="list-style-type: none"> <li>➤ meaning and supply of money</li> <li>➤ Money creation by commercial banks</li> <li>➤ Money multiplier</li> <li>➤ Central bank and its functions</li> </ul>	<ul style="list-style-type: none"> <li>• Analyzing the role of financial markets in an economy</li> </ul>	<ul style="list-style-type: none"> <li>• Interactive lecture method</li> <li>• Laboratory method</li> </ul>	<ul style="list-style-type: none"> <li>• Magazines</li> <li>• PPT</li> <li>• Black board</li> <li>• Text book</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment on credit control measures by Central Bank.</li> </ul>
AUGUST	<ul style="list-style-type: none"> <li>• Current challenges facing Indian economy</li> <li>➤ Poverty</li> <li>➤ Rural development</li> <li>➤ Human capital formation</li> </ul>	<ul style="list-style-type: none"> <li>• Identify and analyses current issues</li> <li>• Sensitive to economic issues</li> </ul>	<ul style="list-style-type: none"> <li>• Discussion method</li> <li>• Observation method</li> <li>• Concept mapping</li> <li>• Field study method</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• Internet</li> <li>• Reference books</li> <li>• NCERT books</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment on poverty alleviation programmes</li> <li>• Chart making on non-farming activities</li> <li>• Discussion on growth of education sector in India</li> <li>• Role play on rural credit</li> </ul>



SEPTEMBER	<ul style="list-style-type: none"> <li>• Determination of income and employment</li> <li>➤ Income and employment concepts</li> <li>➤ Investment multiplier</li> <li>➤ <math>AD = AS</math> Approach</li> <li>➤ <math>S = I</math> Approach</li> <li>➤ Problem of excess demand and deficient demand</li> </ul>	<ul style="list-style-type: none"> <li>• Critical thinking</li> <li>• Reasoning</li> <li>• Logical thinking</li> <li>• Understand the working of investment multiplier</li> <li>• Understanding the Keynesian theory of income and employment</li> <li>• Identifying the measures to correct excess demand and deficient demand</li> </ul>	<ul style="list-style-type: none"> <li>• Concept based</li> <li>• Observation method</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• PPT</li> <li>• Black board</li> <li>• NCERT Textbooks</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment on Keynesian theory of income and employment</li> <li>• Seminar on excess demand and deficient demand</li> <li>• Problem solving on multiplier and income determination</li> </ul>
OCTOBER	<ul style="list-style-type: none"> <li>• Current challenges facing Indian economy</li> <li>➤ Employment</li> <li>➤ Infrastructure</li> <li>• Government budget and the economy</li> <li>➤ Meaning</li> <li>➤ Components</li> <li>➤ objectives</li> </ul>	<ul style="list-style-type: none"> <li>• Evaluating the problem of unemployment</li> <li>• Familiarizing the types of infrastructure</li> <li>• Understanding the problems in energy and health infrastructure</li> <li>• Identifying the components of government budget</li> <li>• Classifying receipts and expenditure</li> </ul>	<ul style="list-style-type: none"> <li>• Interactive lecture method</li> <li>• Discussion method</li> <li>• Concept mapping</li> <li>• Concept mapping</li> <li>• Interactive lecture method</li> </ul>	<ul style="list-style-type: none"> <li>• PPT</li> <li>• Newspaper clippings</li> <li>• E-resources</li> <li>• Smart class</li> <li>• Smart class</li> <li>• Newspaper clippings</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment on employment</li> <li>• Seminar on types of infrastructure</li> <li>• Debate on contemporary unemployment situation in India</li> <li>• Assignment on meaning and objectives of government budget</li> </ul>

	<ul style="list-style-type: none"> <li>➤ Measures of government deficit</li> </ul>	<ul style="list-style-type: none"> <li>• Familiarizing with the objectives of government budget</li> <li>• Assess the measures taken by the government to reduce deficit</li> </ul>		<ul style="list-style-type: none"> <li>• E-resources</li> <li>• Black board</li> </ul>	<ul style="list-style-type: none"> <li>• Chart making on components of government budget</li> <li>• Problem solving on government budget deficit</li> </ul>
NOVEMBER	<ul style="list-style-type: none"> <li>• Balance of payments</li> <li>➤ Meaning and components</li> <li>➤ BOP deficit</li> <li>➤ Foreign exchange rate</li> <li>➤ Types of foreign exchange rates</li> <li>➤ Determination of exchange rate</li> <li>• Development experience of India with neighboring countries</li> <li>➤ India and Pakistan</li> </ul>	<ul style="list-style-type: none"> <li>• Familiarizing the components of BOP</li> <li>• Differentiate between fixed and flexible exchange rate of currency</li> <li>• Identify the price of currency in forex</li> <li>• Able to investigate changes in the society</li> <li>• Understand the problems and measures in their contextual perspective</li> <li>• Able to present view points on economic issues</li> </ul>	<ul style="list-style-type: none"> <li>• Observation method</li> <li>• Interactive lecture method</li> <li>• Learner centered</li> <li>• Student centered</li> <li>• Discussion method</li> </ul>	<ul style="list-style-type: none"> <li>• Smart class</li> <li>• NCERT Text book</li> <li>• Newspaper clippings</li> <li>• E-resources</li> <li>• PPT</li> <li>• Smart class</li> <li>• Reference books</li> <li>• magazines</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment on balance of payment</li> <li>• Find out exchange rates of different currencies</li> <li>• Assignment on comparative look on India and its neighbors</li> <li>• Debate on population growth in</li> </ul>

	<ul style="list-style-type: none"> <li>➤ India and China</li> <li>➤ Issues</li> <li>Sectoral development</li> </ul>	<ul style="list-style-type: none"> <li>● Comparing the development experience of India with other countries</li> </ul>			India and China
DECEMBER	PROJECT SUBMISSION REVISION & FIRST MODEL EXAMINATION				
JANUARY	REVISION & PRACTICAL EXAMINATION				
FEBRUARY	REVISION AND SECOND MODEL EXAMINATION				
MARCH	ANNUAL EXAMINATION				

**Subject: Maths**

Month	Topic	Learning Objectives	Pedagogical strategies	Learning outcomes	Assessment Strategy
June	1. Relations and functions	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand types of relations and functions</li> <li>➤ Understand composition of functions and invertible functions</li> </ul>	<ul style="list-style-type: none"> <li>➤ Concept map</li> <li>➤ Interactive lecture</li> <li>➤ Smart class</li> </ul>	<p>Students will be able to recognise</p> <ul style="list-style-type: none"> <li>➤ Types of relations</li> <li>➤ Types of functions</li> <li>➤ Composition of functions</li> <li>➤ Invertible function</li> </ul>	<ul style="list-style-type: none"> <li>➤ Oral questions</li> <li>➤ Pen paper test</li> </ul>
	2. Inverse Trigonometric functions	<p>Student will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand the basic concepts and properties of inverse trigonometric functions</li> </ul>		<p>Student will be able to recognise</p> <ul style="list-style-type: none"> <li>➤ Inverse trigonometry and its properties</li> </ul>	
	3. Matrices	<p>Student will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand matrix , types of matrices</li> <li>➤ Recognise operations</li> </ul>		<p>Student will be able to recognise</p> <ul style="list-style-type: none"> <li>➤ Matrix</li> <li>➤ Types of matrix</li> <li>➤ Operations on</li> </ul>	

	4. Determinants	<p>on matrices and transpose of matrices</p> <ul style="list-style-type: none"> <li>➤ Identify symmetric and skew symmetric matrices</li> <li>➤ Understand elementary operations and invertible functions</li> </ul> <p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand Determinants and its properties</li> <li>➤ Develop the skill to find the area of the triangle using matrix</li> <li>➤ Understand minor cofactor adjoint and inverse of a matrix</li> <li>➤ Apply determinants and matrices in solving problems</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interactive lecture</li> <li>➤ Discussion</li> </ul>	<p>matrices</p> <ul style="list-style-type: none"> <li>➤ Transpose , symmetric and skew symmetric matrices</li> <li>➤ Elementary operations</li> <li>➤ invertible matrices</li> </ul> <p>Student will be able to realise</p> <ul style="list-style-type: none"> <li>➤ determinants</li> <li>➤ its properties</li> <li>➤ Area of triangle</li> <li>➤ Minor , cofactor</li> <li>➤ Adjoint and inverse</li> <li>➤</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen paper test</li> <li>➤ Lab work</li> </ul> <ul style="list-style-type: none"> <li>➤ Pen paper test</li> <li>➤ Lab work</li> </ul>
July	5. Continuity and differentiation	<p>Student will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand continuity and differentiation</li> <li>➤ Identify the differentiation of different types of functions</li> <li>➤ Identify second order derivatives</li> <li>➤ Understand mean value theorem</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interactive lecture</li> </ul>	<p>Student will be able to recognise</p> <ul style="list-style-type: none"> <li>➤ Continuity</li> <li>➤ Differentiation</li> <li>➤ Solve different types of functions</li> <li>➤ Second order derivatives</li> <li>➤ Mean value theorem</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lab work</li> <li>➤ Pen paper test</li> </ul>

	6. Applications of derivatives	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand rate of change of quantities</li> <li>➤ Develop skill to solve increasing and decreasing functions</li> <li>➤ Classify tangents and normal</li> <li>➤ Understand approximations</li> <li>➤ Identify maxima and minima</li> </ul>	<ul style="list-style-type: none"> <li>➤ Realia</li> <li>➤ Interactive lecture</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Rate of change of quantities</li> <li>➤ Increasing and decreasing functions</li> <li>➤ Tangents and normal</li> <li>➤ Approximations</li> <li>➤ Maxima and minima</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lab work</li> <li>➤ Pen paper test</li> </ul>
August	<p>10. Vector Algebra</p> <p>11. Three dimensional Geometry</p>	<p>Student will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand basic concepts of vector</li> <li>➤ Identify types of vectors</li> <li>➤ Recognise addition of vectors , product of vectors</li> </ul> <p>Student will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand direction cosines and direction ratio</li> <li>➤ Identify different types of equations of line</li> <li>➤ Identify different equations of planes</li> <li>➤ Angle between line , between planes and between line and a plane</li> <li>➤ Recognise the distance between a point from a plane</li> </ul>	<ul style="list-style-type: none"> <li>➤ Smart class</li> <li>➤ Discussion</li> </ul> <ul style="list-style-type: none"> <li>➤ Smart class</li> <li>➤ Discussion</li> </ul>	<p>Student will be able to realise</p> <ul style="list-style-type: none"> <li>➤ basic concept of vectors</li> <li>➤ Types of vectors</li> <li>➤ Product of vectors</li> </ul> <p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Direction cosines and direction ratio</li> <li>➤ Equation of line in a space</li> <li>➤ Equation of plane</li> <li>➤ Angles between line and plane</li> <li>➤ Distance from a point to a plane</li> </ul>	<ul style="list-style-type: none"> <li>➤ Class edge activity</li> <li>➤ Pen paper test</li> </ul> <ul style="list-style-type: none"> <li>➤ Pen paper test</li> </ul>

September	12. Linear Programming  13. Probability	<p>Student will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand different types of L.P.P.</li> </ul> <p>Students will be able to understand</p> <ul style="list-style-type: none"> <li>➤ Conditional probability</li> <li>➤ Multiplication theorem on probability</li> <li>➤ Independent events</li> <li>➤ Bayes theorem</li> <li>➤ Random variable and its probability distribution</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interactive lecture</li> <li>➤ Interactive lecture</li> <li>➤ discussion</li> </ul>	<p>Student will be able to recognise</p> <ul style="list-style-type: none"> <li>➤ Different types of L.P.P</li> </ul> <p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Conditional probability</li> <li>➤ Multiplication theorem on probability</li> <li>➤ Independent events</li> <li>➤ Bayes theorem</li> <li>➤ Random variable and its probability distribution</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen Paper test</li> <li>➤ Lab work</li> </ul>
October	7. Integrals	<p>Students will be able to understand</p> <ul style="list-style-type: none"> <li>➤ Integration</li> <li>➤ Methods of integration</li> <li>➤ Integration by parts and partial functions</li> <li>➤ Definite integrals</li> <li>➤ Fundamental theorem of calculus</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interactive lecture</li> <li>➤ Smart class</li> <li>➤ discussion</li> </ul>	<p>Students will be able to recognise</p> <ul style="list-style-type: none"> <li>➤ Integration</li> <li>➤ Methods of integration</li> <li>➤ Integration by parts and partial functions</li> <li>➤ Definite integrals</li> <li>➤ Fundamental theorem of calculus</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen paper test</li> <li>➤ Lab work</li> </ul>
November	8. Application of integrals  9. Differential equations	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand area under simple curves</li> <li>➤ Recognise area between two curves</li> </ul> <p>Students will be able to understand</p> <ul style="list-style-type: none"> <li>➤ Basic concepts of D.E</li> <li>➤ General and particular solutions</li> <li>➤ Formation of D.E</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interactive lecture</li> <li>➤ Smart class</li> <li>➤ Discussion</li> <li>➤ Interactive lecture</li> </ul>	<p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Area under simple curves</li> <li>➤ Area between two curves</li> </ul> <p>Students will be able to realise</p> <ul style="list-style-type: none"> <li>➤ Basic concepts of D.E</li> <li>➤ General and particular</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pen paper test</li> <li>➤ Lab work</li> </ul>

		➤ Methods of solving first order first degree equations		solutions ➤ Formation of D.E ➤ Methods of solving first order first degree equations	
December		REVISION AND FIRST MODEL EXAMINATION			
January		REVISION			
February		REVISION AND MODEL EXAMINATION			
March		ANNUAL EXAMINATION			



**Subject: Malayalam**

Month	Topic	Short term outcome	Pedagogical Practice	Long term outcome
June	1. കണ്ണാടി കാണാൻ കഴിയാത്തവർ	മലയാളത്തിലെ ക്ലാസിക കൃതികൾ പരിചയപ്പെടുന്നു	കുറിപ്പ് തയ്യാറാക്കൽ പാരായണം , പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു.	സ്വന്തം കഴിവിൽ വിശ്വാസം ഉണ്ടാവുന്നു നന്മയുള്ളവരാവാൻ കഴിയുന്നു
	2. പ്രകാശം, ജലം പോലെയാണ്	നോവലിസ്റ്റിനെ പരിചയപ്പെടുന്നു	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു. വിവർത്തനം തയ്യാറാക്കുന്നു	പ്രകൃതിയെ നിരീക്ഷിക്കാനും പഠിക്കാനും പ്രാപ്തരാകുന്നു
July	3. കിരാതവൃത്തം	കവിതകളിലെ അവതരണ സാധ്യതകൾ കണ്ടെത്തുന്നു	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു.	പ്രകൃതിസ്നേഹം വളരുന്നു
	4. അവകാശങ്ങളുടെ പ്രശ്നം	കഥാസ്വരണം , കഥാകൃത്തിനെ പരിചയപ്പെടൽ കഥാപാത്ര സങ്കേതങ്ങൾ മനസ്സിലാക്കി കുറിപ്പുകൾ തയ്യാറാക്കുന്നു	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	ബന്ധങ്ങളുടെ വില മനസ്സിലാക്കുന്നു
August	5. അഗ്നിവർണ്ണൻറെ കാലുകൾ	നാടകം അവതരിപ്പിക്കുന്നതിന്	പാരായണം പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	ഉത്തരവാദിത്വബോധം ഉള്ളവരാകുന്നു

September	6. കേരളീനിയോഗം	വായന, കലാമാതൃകകളുടെ സവിശേഷതകൾ അറിയുന്നു	പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ ചെയ്യുന്നു.	ശുഭാപ്തി വിശ്വാസം ഉണ്ടാവുന്നു
October	7. പാട്ടത്തിന്റെ പശ്ചാത്തലം	കലാരംഗത്തെ ആളുകളുമായി അഭിമുഖം നടത്തുന്നതിന്	പാഠാനുബന്ധപ്രവർത്തനങ്ങൾ	കലകളെക്കുറിച്ച് അറിയുന്നു
November	8 മാപ്പിളപ്പാട്ടിലെ കേരളീയത	മാപ്പിളപ്പാട്ട് കലാകാരന്മാരെക്കുറിച്ച് അറിയുന്നതിന്	പാഠാനുബന്ധപ്രവർത്തനങ്ങൾ	കലാകാരന്മാരെക്കുറിച്ച് അറിയുന്നു
December	9. മോക്ഷണം 10. ഗൗളിജനം	കവിതയിലെ അവതരണ സാധ്യതകൾ കണ്ടെത്തി അവതരിപ്പിക്കുന്നതിനു സ്ത്രീപക്ഷ കഥകളിലെ സാമൂഹിക വിമർശനതലം അപഗ്രഥിച്ചു കുറിപ്പുകൾ തയ്യാറാക്കുന്നു	കവിപരിചയം ... കഥാകൃത്തിനെ പരിചയപ്പെടുന്നു	സത്യസന്ധരായി ജീവിക്കണം എന്ന ആഗ്രഹം ഉണ്ടാവുന്നു സ്ത്രീ ശാക്തീകരണത്തെ കുറിച്ച് മനസ്സിലാക്കുന്നു
January	11. ബദരിയും പരിസരങ്ങളും 12. നവമാധ്യമങ്ങൾ ശക്തിയും സാധ്യതയും	യാത്രാവിവരണങ്ങൾ എഴുതുന്നതിനു നവമാധ്യമങ്ങളുടെ സാധ്യതകൾ കണ്ടെത്തുന്നതിന്	സമാന കൃതികൾ കണ്ടെത്തി വായിക്കുന്നു പാരായണം പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	രാജ്യസ്മരണം ഉണ്ടാവുന്നു മാധ്യമങ്ങളുടെ സാധ്യതകൾ മനസ്സിലാക്കുന്നു

February	അമ്മയ്ക്ക്	എം.കി .വാസുദേവൻ നായരെക്കുറിച്ചും അദ്ദേഹത്തിന്റെ കൃതികളെക്കുറിച്ചും അറിയുന്നതിന്	വായന, പാഠാനുബന്ധ പ്രവർത്തനങ്ങൾ	സാഹിത്യാഭിരുചി വളരുന്നതിന്
March	പുനരാവർത്തനം Annual Exam			

**Subject: Informatics Practices**

MONTH	TOPIC	LEARNING OUTCOME	PEDAGOGICAL STRATEGY	RESOURCES	ACTIVITY
JUNE	<ul style="list-style-type: none"> <li>• Purpose of plotting</li> <li>• Drawing and saving the following types of plots using Matplotlib <ul style="list-style-type: none"> <li>▪ Line plot</li> <li>▪ Bar plot</li> <li>▪ Histogram</li> </ul> </li> <li>• Customizing plots <ul style="list-style-type: none"> <li>▪ Adding label</li> <li>▪ Title</li> <li>▪ Legend</li> </ul> </li> <li>• Series <ul style="list-style-type: none"> <li>▪ Creation of Series from – ndarray,dictionary, scalar value</li> <li>▪ mathematical operations</li> <li>▪ Head and Tail functions</li> <li>▪ Selection, Indexing and Slicing</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>➤ Evaluation</li> <li>➤ Understanding</li> <li>➤ Logical thinking</li> <li>➤ Creativity</li> </ul>	<ul style="list-style-type: none"> <li>➤ Discussion method</li> <li>➤ Learner centered</li> </ul>	<ul style="list-style-type: none"> <li>➤ Reference books</li> <li>➤ PPT</li> </ul>	<ul style="list-style-type: none"> <li>➤ Peer review writing task.</li> </ul>
JULY	<ul style="list-style-type: none"> <li>• Data Frames <ul style="list-style-type: none"> <li>▪ Creation - from dictionary of Series, list of dictionaries, Text/CSV files</li> <li>▪ Display</li> <li>▪ Iteration</li> <li>▪ Operations on rows and columns: add, select, delete, rename</li> <li>▪ Head and Tail functions</li> <li>▪ Indexing using labels</li> <li>▪ Boolean Indexing</li> <li>▪ Importing or exporting data between CSV files and DataFrames</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>➤ Understanding</li> <li>➤ Analysing</li> <li>➤ Logical thinking.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Learner centred</li> <li>➤ Content focused</li> </ul>	<ul style="list-style-type: none"> <li>➤ PPT</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lab work.</li> </ul>

AUGUST	<ul style="list-style-type: none"> <li>• Math functions: POWER (), ROUND (), MOD ().</li> <li>• Text functions: UCASE ()/UPPER (), LCASE ()/LOWER (), MID ()/SUBSTRING ()/SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM ().</li> <li>• Date Functions: NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAY</li> <li>• Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*).</li> <li>• Querying and manipulating data using Group by, Having, Order by.</li> </ul>	➤ Analysing	<ul style="list-style-type: none"> <li>➤ Interactive/Participative strategy</li> <li>➤ Flowcharts</li> </ul>	➤ Reference books	<ul style="list-style-type: none"> <li>➤ Lab work</li> <li>➤ Misconception check</li> </ul>
SEPTEMBER	<ul style="list-style-type: none"> <li>• Network Types <ul style="list-style-type: none"> <li>▪ LAN</li> <li>▪ MAN</li> <li>▪ WAN</li> </ul> </li> <li>• Network Devices <ul style="list-style-type: none"> <li>▪ Modem</li> <li>▪ Hub</li> <li>▪ Switch</li> <li>▪ Repeater</li> <li>▪ Gateway</li> </ul> </li> <li>• Network Topologies <ul style="list-style-type: none"> <li>▪ Star</li> <li>▪ Bus</li> <li>▪ Tree</li> <li>▪ Mesh</li> </ul> </li> <li>• Introduction to Internet, URL, WWW, and its applications- Web, email, Chat, VoIP</li> <li>• Website <ul style="list-style-type: none"> <li>▪ Difference between website and webpage.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>➤ Understanding</li> <li>➤ Relational thinking</li> </ul>	➤ Content focused	➤ Reference books	➤ Lab work
OCTOBER	<ul style="list-style-type: none"> <li>• Web Pages</li> <li>• Static web pages</li> <li>• Dynamic web pages</li> <li>• Web Server</li> <li>• Web Hosting</li> </ul>	➤ Understanding	<ul style="list-style-type: none"> <li>➤ Content focused learning</li> <li>➤ Optimised coding</li> </ul>	➤ Reference books	<ul style="list-style-type: none"> <li>➤ Lab work</li> <li>➤ Resolving Queries</li> </ul>

	<ul style="list-style-type: none"> <li>• Web Browsers <ul style="list-style-type: none"> <li>▪ commonly used browsers</li> <li>▪ browser settings</li> <li>▪ add-ons</li> <li>▪ plug-ins</li> <li>▪ cookies</li> </ul> </li> </ul>				
NOVEMBER	<p>Societal Impacts of Technology:</p> <ul style="list-style-type: none"> <li>• Digital Footprints <ul style="list-style-type: none"> <li>▪ Active digital footprint</li> <li>▪ Passive digital footprint</li> </ul> </li> <li>• Net and Communication Etiquettes.</li> <li>• Data Protection</li> <li>• Intellectual Property Rights</li> <li>• Plagiarism</li> <li>• Licensing and copyright</li> <li>• Free and open source software (FOSS)</li> <li>• Cybercrime and cyber laws</li> <li>• Hacking</li> <li>• Phishing</li> <li>• Cyber Bullying</li> <li>• Overview of Indian IT Act</li> </ul>	➤ Understanding	➤ Discussion method ➤ Demonstrative method	➤ Interactive panel PPT	➤ Peer review writing task
DECEMBER	Revision and Record work				
JANUARY	Model Examination and Project work				
FEBRUARY	Revision and Model Examination				
MARCH	Revision				

**Subject: Business Studies**



MONTH	TOPIC	LEARNING OUTCOME	PEDAGOGICAL STRATEGY	RESOURCES	ACTIVITY
JUNE	<u>Nature and significance of management</u>	Students will be able to understand and identify	Interactive/ participative	Reference book Text book Smart class	Seminar is continued
	Meaning and features Management as science, art and profession Levels of management Functions of management Co- ordination				
	<u>Principles of management</u>				
	Concepts and significance of management Fayal's principles of management Tayolor's scientific management	Comprehension and understanding	Questioning Techniques		Debate
	<u>Business Environment</u>				
	Concepts and importance Dimension of business environment	Understanding	Discussion method Application	Reference book Text book Smart class	Assignment



	Marketing mix-concept elements, product branding, labelling and packaging-concept, price, physical distribution, promotion	Understanding Creativity comprehensive	Learning centered	Smart class Text book Reference book	Seminar
SEPT	<u>Consumer protection</u>  Concepts and importance of consumer protection Rights and responsibilities Remedies available, consumer awareness Role of consumer organization  <u>Planning</u>  Planning, planning process, types of plans	Analyzing and creativity          Awareness understanding	Interactive and participative          Interactive and participative	Smart class Text book Reference book	Assignments          Assignments Seminar
OCT	<u>Organizing</u>  Concepts and importance of organizing Organizing procedures and organizing structure, delegation, decentralization  <u>Staffing</u>	Understanding			

	<p>Concepts and importance of staffing HRM Staffing process Recruitment process Training and development</p>	<p>Understanding And analyzing</p>	<p>Discussion method</p>	<p>Smart class Text book Reference book</p>	<p>Assignments Mark scoring points</p>
NOV	<p><u>Directing</u></p> <p>Concepts and importance of directing, elements of directing Supervision, motivation, leadership, communication</p> <p><u>Controlling</u></p> <p>Concepts and importance Relation between planning and controlling Steps in the process of control</p>	<p>Understanding and evaluation</p> <p>Understanding And analyzing</p>	<p>Discussion method</p> <p>Demonstration method</p>	<p>Smart class Text book Reference book</p> <p>Smart class Text book Reference book</p>	<p>Assignments</p> <p>Discuss about caring short questions</p>
DEC	PROJECT SUBMISSION , REVISION , FIRST MODEL EXAMINATION,				
JAN	REVISION , PRACTICAL EXAMINATION				
FEB	REVISION , SECOND MODEL EXAMINATION				

**Subject: Accountancy**

MONTH	TOPIC	LEARNING OUTCOME	PEDAGOGICAL STRATEGY	RESOURCES	ACTIVITY
JUNE	<u>Financial Statement of Not-for –profit organization</u>  State the meaning of Receipts and Payments  Preparation of receipt and payment account and Income and expenditure account and balance sheet	Develop the understanding and skill of preparing accounts	Problem solving method and lecture method	Reference book Text book	Assignment
	<u>Accounting for fundamentals of partnership.</u> Partnership features, deed Preparation of capital a/c and Profit & Loss appropriation Past adjustment  Calculation of goodwill	Developing and analyzing preparation of problem	Interaction Content for used Lecture method	Smart class Reference book	Seminar
JULY	Interest on partners loan is to be charge or appropriation of profit				

	<p>Goodwill to be adjusted through partners' capital/ current or by raising and written off</p> <p>Admission of a partner and retirements and death and dissolution</p> <p>Treatment revaluation of assets and reassessment liabilities</p> <p>Adjustment of capital a/c</p>	<p>Discussion of scoring marks</p> <p>Developing the skill of calculation</p> <p>Analyzing the creativity</p>	<p>Problem solving method</p> <p>Problem solving method</p>	<p>NCERT Text book Reference book Smart class</p> <p>Smart class Text book Reference book Sample questions</p>	<p>Assignment</p> <p>Discussion method</p>
AUGUST	<p>Dissolution of partnership firm</p> <p>Meaning of dissolution partnership firm and partnership, types of dissolution</p> <p>Settlement of accounts</p> <p>Preparation of realization a/c, Capital a/c and cash a/c</p>	<p>Students will be able to understand the method of preparing a/cs</p>	<p>Problem solving method</p>	<p>Smart class Text book Reference book Sample questions</p>	<p>Assignment</p>
SEPT	<p><u>Accounting for companies</u></p> <p>Accounting for share capital: issue and allotment of equity and preference shares-over subscription, under subscription of shares, issued at par and at premium, calls in solvance, arrears. Issue</p>	<p>Students will be able to understand the method of recording and solving problem</p>	<p>Problem solving method</p>	<p>Smart class Text book Reference book</p>	<p>Seminars</p> <p>Assignments</p>

	of shares for consideration other than cash Concept of private placement and employees stock option Accounting treatment for failure and reissue of shares <u>Accounting for  debentures</u>				
OCT	<u>Analysis of financial  statement</u> Financial statement of company Financial statement analysis Tools of financial statement analysis Accounting ratios	Understanding	Problem solving	Smart class Text book Reference book	Assignments of problems
NOV	<u>Cash flow statement</u> Meaning ,objectives and preparation	Analyzing creativity	Application skill	Smart class Text book Reference book	Seminars  Assignments
DEC	PROJECT SUBMISSION , REVISION , FIRST MODEL EXAMINATION,				
JAN	REVISION , PRACTICAL EXAMINATION				
FEB	REVISION , SECOND MODEL EXAMINATION				



**Subject: Computer Science**

MONTH	TOPIC	LEARNING OUTCOME	PEDAGOGICAL STRATEGY	RESOURCES	ACTIVITY
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JUNE	<ul style="list-style-type: none"> <li>• Revision of python basics <ul style="list-style-type: none"> <li>▪ Functions</li> </ul> </li> <li>• File handling in python</li> <li>• Types of file <ul style="list-style-type: none"> <li>• Text file</li> <li>• Binary File</li> <li>• CSV File</li> </ul> </li> <li>• Operations <ul style="list-style-type: none"> <li>▪ Writing</li> <li>▪ Reading</li> <li>▪ Traversal</li> </ul> </li> <li>• Libraries</li> </ul>	<ul style="list-style-type: none"> <li>➤ Evaluation</li> <li>➤ Understanding</li> <li>➤ Logical thinking</li> <li>➤ Creativity</li> </ul>	<ul style="list-style-type: none"> <li>➤ Discussion method</li> <li>➤ Learner centered</li> </ul>	<ul style="list-style-type: none"> <li>➤ Reference books</li> <li>➤ PPT</li> </ul>	<ul style="list-style-type: none"> <li>➤ Peer review writing task</li> <li>➤ Lab work.</li> </ul>
JULY	<ul style="list-style-type: none"> <li>• Data Communications</li> <li>• Evolution <ul style="list-style-type: none"> <li>▪ ARPANET</li> <li>▪ NSFNET</li> <li>▪ INTERNET</li> </ul> </li> <li>• Communication terminologies <ul style="list-style-type: none"> <li>▪ Measuring Capacity</li> </ul> </li> <li>• Switching Techniques <ul style="list-style-type: none"> <li>▪ Circuit Switching</li> <li>▪ Packet switching</li> </ul> </li> <li>• Transmission Media <ul style="list-style-type: none"> <li>▪ Wired communication <ul style="list-style-type: none"> <li>▪ Twisted pair</li> <li>▪ Co-axial</li> <li>▪ Fiber-optic</li> </ul> </li> <li>▪ Wireless communication <ul style="list-style-type: none"> <li>▪ Radio waves</li> <li>▪ Micro waves</li> <li>▪ Infrared waves</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>➤ Understanding</li> <li>➤ Analysing</li> <li>➤ Logical thinking.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Content focused</li> </ul>	<ul style="list-style-type: none"> <li>➤ PPT</li> </ul>	<ul style="list-style-type: none"> <li>➤ Peer review writing task</li> </ul>
AUGUST	<ul style="list-style-type: none"> <li>• Network topologies <ul style="list-style-type: none"> <li>▪ Star</li> <li>▪ Bus</li> <li>▪ Tree</li> <li>▪ Mesh</li> </ul> </li> <li>• Network protocol <ul style="list-style-type: none"> <li>▪ LAN</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>➤ Analysing</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interactive/Participative strategy</li> </ul>	<ul style="list-style-type: none"> <li>➤ Reference books</li> </ul>	<ul style="list-style-type: none"> <li>➤ Labwork</li> <li>➤ Misconception check</li> </ul>

	<ul style="list-style-type: none"> <li>▪ MAN</li> <li>▪ WAN</li> <li>• Network Devices <ul style="list-style-type: none"> <li>▪ Modem</li> <li>▪ Hub</li> <li>▪ Switch</li> <li>▪ Repeater</li> <li>▪ Gateway</li> </ul> </li> <li>• Network Topologies <ul style="list-style-type: none"> <li>▪ Star</li> <li>▪ Bus</li> <li>▪ Tree</li> <li>▪ Mesh</li> </ul> </li> <li>• Mobile telecommunication</li> <li>• Web services</li> <li>•</li> </ul>				
SEPTEMBER	<ul style="list-style-type: none"> <li>• Data base concepts</li> <li>• Relational data model :Attribute ,Tuple ,Domain,degree,cardinality,Keys</li> <li>• SQL(Structured Query Language) <ul style="list-style-type: none"> <li>▪ Data types and constrains</li> </ul> </li> <li>• SQL data manipulation</li> <li>• SQL Data Definition</li> <li>• SQL Data Query</li> <li>• Text functions: UCASE ()/UPPER (), LCASE ()/LOWER(), MID ()/SUBSTRING ()/SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM ().</li> <li>• Aggregate Functions:MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*).</li> <li>• Querying and manipulating data using Group by, Having, Order by.</li> <li>• Joins</li> </ul>	<ul style="list-style-type: none"> <li>➤ Understanding</li> <li>➤ Relational thinking</li> </ul>	➤ Content focused	➤ Reference books	<ul style="list-style-type: none"> <li>➤ Lab work</li> <li>➤ Resolving Queries</li> </ul>

OCTOBER	<ul style="list-style-type: none"> <li>• Data structure</li> <li>• Stack</li> <li>• Queue <ul style="list-style-type: none"> <li>▪ Operations on stack: Push(),Pop()</li> <li>▪ Implementation of stack using list</li> <li>▪ Operations on Queue::Enqueue,dequeue</li> <li>▪ Implementation of Queue using List</li> </ul> </li> </ul>	➤ Understanding	➤ Content focused learning ➤ Optimised coding	➤ Reference books	➤ Lab work
NOVEMBER	<ul style="list-style-type: none"> <li>• Interface of python with an SQL database</li> <li>• Connecting SQL with python <ul style="list-style-type: none"> <li>▪ Import module</li> <li>▪ Connect(),cursor(),execute()</li> </ul> </li> <li>• Performing SQL Queries: Insert, update ,delete</li> <li>• Display data: fetchone(), fetchall(), rowcount()</li> <li>• Commit and Rollback</li> <li>• Creating database connectivity applications</li> </ul>	➤ Understanding	➤ Discussion method ➤ Demonstrative method	➤ Interactive panel PPT	➤ Peer review writing task ➤ Lab work
DECEMBER	Revision and Record work				
JANUARY	Model Examination and Project work				
FEBRUARY	Revision and Model Examination				
MARCH	Revision				

**Subject: English**

MONTH	TOPIC	SHORT TERM GOALS	PEDAGOGICAL PRACTICES	LONG-TERM GOALS LEARNING OUTCOME
JUNE	The Last Lesson	Value of Freedom and Patriotism.	Group Discussion	At the end of the lesson students will be able to : Understand the value of freedom and patriotism
	My Mother At Sixty Six	Value of hope in everyone's life	Debate	Captures the subtlety of human relationship
	The Tiger King		Listening	Listen to a review and gather facts and answer questions about heard facts
	The third level		Note Making Speaking	
JULY	Lost Spring	Fighting against social evils.	Designing Posters	Millions of children in India waste their childhood in most hazardous conditions
	An Elementary School Classroom in a Slum	Social Injustice and equality	Drafting Notices Advertisements	Children should be allowed to have full mental as well as physical development
	The Enemy	Value of peace, love and toleration		A Dr. Gives up priority to save the life of a dying man
	Journey to the end of the Earth	To know more about the planets		Understood more about planets
AUGUST	Deep Water	Confidence in self and an ardent desire bring success in life.	Invitations Formal	All terrors and fears are psychological. We can conquer them

	Keeping Quiet(poem)	Value of silence	Invitations Informal	Stillness and silence will help man in creating a feeling of mutual understanding among human beings.
	Poets and the pancakes	Influence of movies	Report Writing	Using gentle humour to point out human weakness and absurdities.
	Roadside stand(poem)	Sympathy and humanity		Understand the plight of the rural poor
SEPTEMBER	The Rattrap	The essential goodness in a human being can be awakened through love and understanding.	Writing Letters- enquiries,	Able to learn the universal message that this world is a big rattrap .Riches and wealth only tempt and trap us in.
	Should Wizard Hit Mommy?	The bond of love	complaints,	Realize the basic moral issue of racial segregation.
	On The Face of It	Love and Sympathy can bring a great change in the attitude	asking Information	The need to develop positive attitude towards life and people. Chapter shows right way of judging man matters and life of young generation.
			Placing Orders	
			Sending Replies	
OCTOBER	Indigo	Importance of keeping mental as well as physical strength.	Job Application,	The Champaran episode was a turning point in the participation of ordinary people of India.
	A thing of Beauty	A thing of beauty is a joy forever.	Articles for Magazines,	Understood that beauty never fades nor is it devalued.
	Evans Tries a O-Level	Lapses on the part of the police and prison	Articles for Newspapers	Describes how all attempts of the prison officers and the governor failed to stop Evans from escaping.
	Interview part I and II	Importance of interview		Understood, despite of the draw backs, there are many positive views on interviews.
NOVEMBER	Going Places	How to face the adolescent challenges.	Writing Speeches	Understand about an incurable day – dreamer and escapist.

	<p><i>Aunt Jennifer's Tiger</i></p> <p><i>Memories of Childhood</i></p>	<p>Value of Strength beauty and Certainty</p> <p>The need for fighting against discrimination and untouchability.</p>	<p>Reading comprehension</p>	<p>Bitter experiences of an unhappy married life.</p> <p>Understood how Indian society is ridden with the evil of untouchability and also in human attitude of the people belonging to the higher caste towards lower caste.</p>
DECEMBER	REVISION AND MODEL EXAMINATION			
JANUARY	REVISION AND MODEL EXAMINATION			
FEBRUARY	REVISION AND MODEL EXAMINATION			
MARCH	BOARD EXAMINATION			