



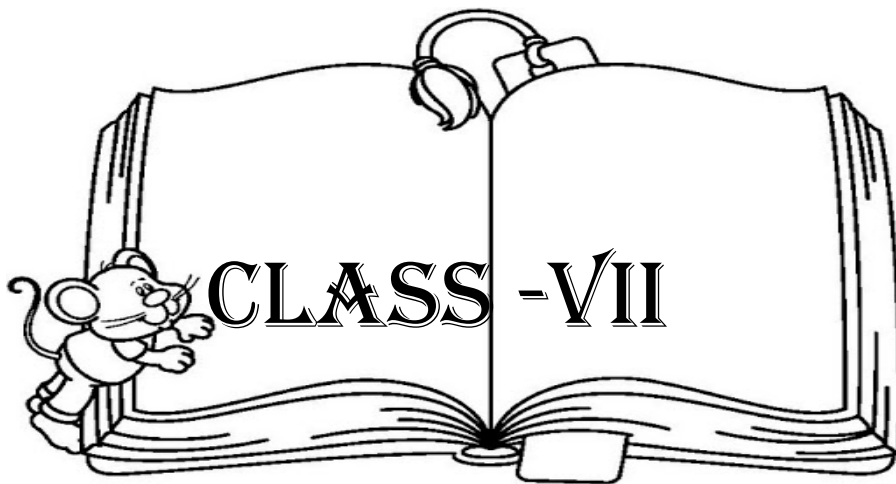
**DELHI PUBLIC SCHOOL**

**Siddharth Vihar Ghaziabad**

(Under the aegis of DPS Society, New Delhi)

# SYLLABUS BOOKLET

2019-20



**Student Name:** \_\_\_\_\_

**Section:** \_\_\_\_\_

**ENGLISH**

**APRIL Number of Working Days-20**

<b>Topic</b>	<b>Sub-Topics</b>	<b>Expected Learning Outcomes</b> <b>Learners will be able to:</b>	<b>Activities</b>
(Prose): Light in the Night (poem): Adventures of Isabel	About the author New words Major themes Character analysis Poetic devices Critical analysis of the poem	Know more about Clarie Horseburgh Tell about the invention of street lights Describe London at a time when street lights were not invented List the number of stories that were written about lamps and lights Frame sentences using new vocabulary Explain the main theme of the story Discuss the purpose of the writer Identify the poetic devices (similes, alliteration, imagery, metaphor, assonance, personification, onomatopoeia) Compare the life of the poet with the major theme of the poem	Dictionary time
	Writing: Timeline of a lamplighter's typical day	List out the tasks taken up by the lamplighter each day Make a time line with brief details of the lamplighter's routine	
	Speaking- Debate	Present their view points based on their research Answer the interjections	-
	Listening -		
Writing: Notice writing	Event notice Lost and found	State the different kinds of notice Write a notice with proper format	
Grammar: Prepositions	Preposition of time and place, use of "since" and "for"	Recognize prepositions and their objects Distinguish prepositions of time and place Frame meaningful sentences using prepositions Discuss the answers of the practice exercise on prepositions	Activity name: What do you see in the picture?
Web Link	<a href="https://youtu.be/AHabJ0lLx5A">https://youtu.be/AHabJ0lLx5A</a>		

**MAY Number of Working Days-10**

(Prose): January Night	About the author New words themes Character is	Discuss about problems in translation of vernacular literature. Explain the "zamindaari system" in relation to the prose State the common features of Premchand's writings Do a character analysis of the main characters in the prose Frame meaningful sentences with new vocabulary	
	Writing- A short account by Jabra (paragraph writing)	Write a well structured paragraph Organise their collected thoughts into a well written paragraph	Brainstorming
	Listening : ASL	Recall important points in the audio played by the teacher Write answers in the worksheet based on the audio played	
Writing: Essay writing		Write a well structured essay Include all the key points and words discussed during brainstorming session in the essay	
Grammar: Adverbs	Types of Adverbs	Identify adverbs in given sentences State the type of adverbs Differentiate between each type adverbs Frame meaningful sentences using adverbs	The "WH" activity.
Web Link	<a href="https://youtu.be/5AAXp52MkKU">https://youtu.be/5AAXp52MkKU</a>		

**JULY Number of Working Days-20**

(Prose): The Story of an Invitation. (Poem): Moon Wind, The Naming of Cats	About the author New words Major themes Character analysis Poetic devices Critical analysis of the poem	Talk about the writing style of T.S.Eliot Discuss about mythological poems and their origin in 18th century Explain the concept of first and second person narration Do a detailed character analysis Identify the poetic devices Explain the purpose of alliteration with regard to the theme of the poem	Circle Time, Activity name: Listen to the poem
	Writing- biographical account	State the difference between biography and autobiography Write a well structured biography with the help of the points discussed in the class	
	Speaking- Symposium	Do a team research on the given topic	-----

		Present their view points as a team.	
Writing: Message writing		Shorten a lengthy message Write a brief message based on the information received	Activity name : Listen and communicate
Grammar: Modals		Explain the usage of each modal List out modals that can be used in a particular situation Choose appropriate modals to complete sentences Rephrase sentences using suitable modals	Read a travel guide (entify the modals)
Web Links	<a href="https://youtu.be/4tmrU-6ruh4">https://youtu.be/4tmrU-6ruh4</a> , <a href="https://youtu.be/8VQsToWj4ak">https://youtu.be/8VQsToWj4ak</a>		

**AUGUST Number of Working Days- 20**

(Prose): The Carew Murder Case (Poem): The Listeners	About the author New words Major themes Character analysis Poetic devices Critical analysis of the poem	Talk about the writing technique of murder mysteries List other murder mysteries written by R.L.Stevenson Do a character detailed character analysis Compare the writing techniques of Stevenson and Walter De La Mare (both mystery novel writers) Identify the poetic devices State the purpose of poetic devices in the poem	STAR-ATELLAR activity.
	Writing- Newspaper report on Carew murder case.	Write a news paper report in indirect speech Do a detailed research about the murder case and write a report	
	Listening- ASL	Recall important points in the audio played by the teacher Write answers in the worksheet based on the audio played	
Writing: Report writing		Give a suitable title to the report Write a report in indirect speech Write a well structured report	
Grammar: Conjunctions		Frame compound sentences using conjunctions	Newspaper reading. (to identify conjunctions)
Web Link	<a href="https://youtu.be/vOIKBvDX_1k">https://youtu.be/vOIKBvDX_1k</a>		

**OCTOBER Number of Working Days- 17**

(Prose): The Shri Krishna Eating House. (Poem):London's	About the author New words Major themes Character analysis	Tell more about Anita Desai and her literary achievements List other Indian award winning writers of Desai's time	Role play (analysis of each situation through Halku's eyes)
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Summer Morning	Poetic devices Critical analysis of the poem	Discuss about the common themes of contemporary Indian writings. Do a detailed character analysis. Frame sentences with new vocabulary Discuss about the acting career of Mary Robinson. Identify the poetic devices. Explain the purpose of poetic devices in the poem.	
	Writing- Describe and report about a fancy restaurant comparing it with Shri Krishna Eating House.	Compare Shri Krishna Eating House to a fancy restaurant. Write a report based on the comparison.	
	Speaking- Debate	Do a research on the given debate topic Do a critical analysis of the viewpoints put forward by the opposition Express their view points on the given debate topic	
Writing: Essay writing		Give a suitable title to the essay Write a well structured essay	
Grammar: Active and Passive voice		Identify active and passive voice Convert active into passive voice	Activity name : Narrate a story
Web Links	<a href="https://youtu.be/FHPQpgkNJb0">https://youtu.be/FHPQpgkNJb0</a> , <a href="https://youtu.be/Fr4sMsEL1SQ">https://youtu.be/Fr4sMsEL1SQ</a>		
<b>NOVEMBER Number of Working Days-20</b>			
(Prose): The Story of Keesh	About the author New words Major themes Character analysis	Tell more about Jack London Do a detailed character analysis of Keesh Explain "grey character" with examples Frame sentences using new vocabulary List qualities of a good leader while examining the authorities in the story	STAR-STELLAR activity
	Writing-Dialogue writing	Write dialogues in direct speech Recall the extreme situations in the story in relation to Keesh.	Activity name: Be a speaker
	Listening-ASL	Recall important points in the audio played by the teacher Write answers in the worksheet based on the audio played	worksheet to be given to the students
Writing:		Relate the given topics to todays	Identify the advertisement

Advertisement		requirement Discuss the various ways of advertising a product Make a creative advertisement with all the details	
Grammar: Direct and Indirect Speech		Distinguish between direct and indirect speech List the rules for converting direct speech to indirect speech and indirect speech to direct speech	Role play: (first, second and third narrator)
Web links	<a href="https://youtu.be/f5rjgifsN3l">https://youtu.be/f5rjgifsN3l</a> , <a href="https://youtu.be/pGOYlbXbN0o">https://youtu.be/pGOYlbXbN0o</a>		
<b>DECEMBER Number of Working Days- 20</b>			
(Prose): A Voice in the Dark. (Poem): Daffodils	about the author, new words, major themes, character analysis, poetic devices, critical analysis of the poem	Explain the main features of travel writing.  Do a critical analysis of the theme and the writer's life  Frame sentences with new vocabulary  Identify the poetic devices  Discuss the writing style of Wordsworth  Explain the poem in their own words. Share their viewpoints on the major themes of the poem	Circle time
	Writing- Letter to the editor	Identify the main elements and structure of a letter to the editor Write a well structured letter	
	Speaking- Debate	Put forward their views on the given topic  Prove the opposition wrong by stating examples	
Writing; Formal Letter		State the difference between letters of application, complaint and business	
Grammar: Idioms		Explain the meanings of idioms Frame meaningful sentences using idioms	
Web Link	<a href="https://youtu.be/g4nDN0W7u20">https://youtu.be/g4nDN0W7u20</a>		

**JANUARY Number of Working Days-14**

(Play): Julius Caesar	About the playwright, character analysis, major themes.	Tell more about Shakespeare Analyze the figurative language. Summarize the plot of Julius Caesar. Determine how characters develop in Julius Caesar	Movie Time
	Writing- Speech writing	State the difference between speech writing and other kinds of writing. Use suitable quotes in their speech Write a well structured speech	
	Speaking-		
	Listening- ASL	Recall important points in the audio played by the teacher  Write answers in the worksheet based on the audio played	
Writing: Formal Letter (cont.)		State the difference between letters of application, complaint and business	
Web Link	<a href="https://www.youtube.com/watch?v=PRZTxQcQ5rA">https://www.youtube.com/watch?v=PRZTxQcQ5rA</a>		

**HINDI****APRIL Number of Working Days- 20**

Topic	Sub-Topics	Expected Learning Outcomes Learners will be able to:	Activities
पाठ- 1हमपंछीउन्मुक्तगगनकेपाठ 2-दादीमाँ	पठन वाचनकठिनशब्दार्थप्रश्नोत्तर आशयस्पष्टीकरणअभ्यास कार्य	विभिन्नप्रकारकेपक्षियोंकेसम्बन्धमेंजानकारी मितव्ययताकामहत्त्व	पक्षियोंकारहन- सहनवभोजनकेविषयमेंजान कारी
वर्णविचार,	स्वर, व्यंजन संयुक्ताक्षर वर्णविच्छेद		व्याकरणकाज्ञान

Web Link

[https://youtu.be/XX230e1Eq\\_g](https://youtu.be/XX230e1Eq_g)**MAY Number of Working Days-10**

पाठ -3 हिमालयकीबेटियाँपाठ- -4 कठपुतली शब्द भंडार	पठन वाचनकठिन शब्दार्थप्रश्नोत्तर आशयस्पष्टीकरणअभ्यास कार्य	देशकीनदियोंकीजानकारी कठपुतलीकलाकाज्ञान	कठपुतलीनिर्माणवअभिनय मंचन
रकेरूप ,लेखनकौशल	रकेविभिन्नरूपवउनकाश ब्दोंमेंप्रयोग पत्रलेखननियमवप्रारूप	रकेविभिन्नरूपोंकाज्ञान	अभ्यासकार्य

Web Link

<https://youtu.be/46UluNFLkxw>**JULY Number of Working Days-20**

पाठ -5 मिठाई वाला पाठ- 6 रक्त और हमारा शरीर क्रिया	पठन वाचन कठिन शब्दार्थ प्रश्नोत्तर आशय स्पष्टीकरण अभ्यास कार्य	शरीर विज्ञान की व पौष्टिक खाद्य पदार्थों की जानकारी	मिठाई वाला पाठ से तत्सम, तद्भव शब्दों का चयन
शब्द विचार	तत्सम तद्भव देशी विदेशी	शब्द के प्रकार की जानकारी	अभ्यास कार्य

Web Link

<https://youtu.be/XI5S2IPhvis>**AUGUST Number of Working Days-20**

पाठ -8शाम एक किसान	पठन	पठन	प्रकृति का सौन्दर्य बोध
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पाठ 9-चिड़िया की बच्ची	वाचन कठिन शब्दार्थ प्रश्नोत्तर , आशय स्पष्टीकरण अभ्यास कार्य	वाचन कठिन शब्दार्थ प्रश्नोत्तर आशय स्पष्टीकरण अभ्यास कार्य	माँ का महत्व
लेखन कौशल	पत्र अनुच्छेद	पत्र लेखन अनुच्छेद लेखन के नियमों की जानकारी	प्रधान मंत्री के नाम पत्र लेखन
<b>OCTOBER Number of Working Days-17</b>			
पाठ-10 अपूर्व अनुभव पाठ-11-रहीम के दोहे	पठन वाचन कठिन शब्दार्थ , प्रश्नोत्तर ,आशय स्पष्टीकरण अभ्यास कार्य	नैतिक मूल्यों का ज्ञान	दोहों का सस्वर वाचन व भावार्थ
विशेषण, क्रिया विशेषण	परिभाषा व भेद	व्याकरण के नियम	पाठ्य पुस्तक से विशेषण व क्रिया विशेषण चयन
Web Links	<a href="https://youtu.be/AvakIFgvDPQ">https://youtu.be/AvakIFgvDPQ</a> , <a href="https://youtu.be/LLj81x40iTQ">https://youtu.be/LLj81x40iTQ</a>		
<b>NOVEMBER Number of Working Days-20</b>			
पाठ-14 खान -पान की बदलती तस्वीर पाठ-13 - एक तिनका	पठन वाचन कठिन शब्दार्थ प्रश्नोत्तर , आशय स्पष्टीकरण अभ्यास कार्य	विभिन्न स्थानों के खान पान की जानकारी	विभिन्न स्थानों के खान पान सम्बन्धित भित्ति चित्र निर्माण
संज्ञा ,सर्वनाम, वाक्य,	परिभाषा भेद	व्याकरण के नियम	जातिवाचक संज्ञा को भाववाचक में परिवर्तित करना
Web Links	<a href="https://youtu.be/33XDDpqlgrU">https://youtu.be/33XDDpqlgrU</a> , <a href="https://youtu.be/YTxmy9iZTZY">https://youtu.be/YTxmy9iZTZY</a>		
<b>DECEMBER Number of Working Days-20</b>			
पाठ -16 भोर और बरखा, पाठ-17 वीर कुँवर सिंह	पठन वाचन कठिन शब्दार्थ प्रश्नोत्तर आशय स्पष्टीकरण , अभ्यास कार्य	स्वतंत्रता सेनानियों के जीवन के सम्बन्ध में जानकारी	मीरा के पदों का लयबद्ध गायन
विशेषण, क्रिया विशेषण,	परिभाषा व भेद	व्याकरण के नियम	पाठ्य पुस्तक से विशेषण व क्रिया विशेषण चयन
Web Links	<a href="https://youtu.be/AvakIFgvDPQ">https://youtu.be/AvakIFgvDPQ</a> , <a href="https://youtu.be/LLj81x40iTQ">https://youtu.be/LLj81x40iTQ</a>		
<b>JANUARY Number of Working Days-14</b>			
पाठ 19 आश्रम का अनुमानित व्यय पाठ-20- विप्लव गायन	पठन वाचन कठिन शब्दार्थ	बजट निर्माण की जानकारी	विद्यालय के किसी विशेष आयोजन हेतु बजट निर्माण

	प्रश्नोत्तर आशय स्पष्टीकरण अभ्यास कार्य		
Web Link	<a href="https://youtu.be/fchBvqR2kg0">https://youtu.be/fchBvqR2kg0</a>		

## MATHS

APRIL Number of Working Days-20

Topic	Sub-Topics	Expected Learning Outcomes Learners will be able to:	Activities
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<b>Integers</b>	Properties of whole numbers and the concept of integers	Recall properties of whole numbers and the concept of integers	Lab Activity: To multiply integers using unit paper-squares
	Order and compare integers	Order and compare integers	
	Absolute value of integers	Find absolute value of integers	
	Operations on integers	Perform operations on integers	
	Properties associated with operations on integers	State and identify properties associated with operations on integers	
	BODMAS for solving integers	Use BODMAS for solving integers	
<b>Symmetry</b>	Lines of symmetry	Identify lines of symmetry	
	Reflection symmetry	Define reflection symmetry	
	Rotational symmetry	Define rotational symmetry	
	Order of rotational symmetry and angle of rotation	Find the order of rotational symmetry and angle of rotation	
<b>Fractions</b>	Recapitulate the meaning of fractions.	Recapitulate the meaning of fractions	Lab Activity: To divide fractions using a number line
	Multiply a fraction by a whole number, a fraction or a mixed fraction	Multiply a fraction by a whole number, a fraction or a mixed fraction	
	Divide a fraction by a whole number, a fraction or a mixed fraction and vice versa	Divide a fraction by a whole number, a fraction or a mixed fraction and vice versa.	
<b>Web Link</b>	<a href="https://www.youtube.com/watch?v=P4sOrmoxqOs">https://www.youtube.com/watch?v=P4sOrmoxqOs</a> <a href="https://www.youtube.com/watch?v=s4tS-ZmpJfw">https://www.youtube.com/watch?v=s4tS-ZmpJfw</a> <a href="https://youtu.be/-6AhN38OR14">https://youtu.be/-6AhN38OR14</a>		
<b>MAY Number of Working Days-10</b>			
<b>Decimals</b>	Recapitulate the concept of decimals	Recapitulate the concept of decimals	

	Convert fractions into decimals and vice-versa	Convert fractions into decimals and vice-versa	
	Operations on decimals	Perform operations on decimals	
	Metric units in real-life situations	Apply metric units in real-life situations	
<b>Rational numbers</b>	Define rational numbers	Define rational numbers	Lab Activity: To multiply two rational numbers experimentally.
	Rational number on number line	Represent rational number on number line	
	Rational numbers in standard form	Write rational numbers in standard form	
	Equivalent rational numbers	Find equivalent rational numbers	
	Rational numbers between two numbers	Find rational numbers between two numbers	
	Absolute value of rational numbers	Write absolute value of rational numbers	
	Operations on rational numbers	Perform operations on rational numbers	
	Rational numbers as decimals	To represent rational numbers as decimals	
	Rational numbers in real-life situations	Use the concept of rational numbers in real-life situations	
<b>Web Link</b>	<a href="https://youtu.be/kBbi87hMeFo">https://youtu.be/kBbi87hMeFo</a>		
<b>JULY Number of Working Days-20</b>			
<b>Algebraic Expressions</b>	Algebraic Expressions involving one or two variables	Generate algebraic Expressions involving one or two variables	Lab Activity: To add algebraic expressions using algebra tiles.
	Constants, coefficients and powers	Define and identify constants, coefficients and powers	
	Like and unlike terms	Determine like and unlike terms	
	Types of algebraic Expressions	Study types of algebraic Expressions	
	Degree of polynomial.	State the degree of polynomial.	
	Value of algebraic expression	Find value of algebraic expression	

<b>Simple Linear Equations</b>	Meaning of an equation	State the meaning of an equation	Lab Activity: To solve linear equation in one variable experimentally.
	Balancing an equation	State the conditions for balancing an equation	
	Roots or solution of an equation	Explain the meaning of roots or solution of an equation	
	Methods to solve an equation	State the methods to solve an equation	
	Framing equations	Frame equations	
	Real-life problems on linear equations	Solve real-life problems based on linear equations.	

<b>Web Link</b>	<a href="https://www.youtube.com/watch?v=KOODjDFBQAA">https://www.youtube.com/watch?v=KOODjDFBQAA</a> <a href="https://www.youtube.com/watch?v=atTehUPVkeQ">https://www.youtube.com/watch?v=atTehUPVkeQ</a>		
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**AUGUST Number of Working Days-20**

<b>Lines and angles</b>	Special pairs of angles	Study special pairs of angles	
	Transversal lines	Recognise and define transversal lines	
	Angles formed by two parallel lines and a transversal.	Explain the angles formed by two parallel lines and a transversal	

<b>Properties of Triangles</b>	Triangles and its elements	Define triangles and its elements	Lab Activity: To verify the angle sum property to a triangle.
	Classification of triangles	Study the Classification of triangles	
	Median and altitudes	State the meaning of median and altitudes	Lab Activity: To verify that exterior angle of a triangle is equal to the sum of its interior opposite angles.
	Properties of triangles	State and verify	
	Pythagoras theorem	State and verify Pythagoras	

		theorem	
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<b>Web Link</b>	<a href="https://www.youtube.com/watch?v=NxIRHn7tR7I">https://www.youtube.com/watch?v=NxIRHn7tR7I</a>		
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<b>OCTOBER Number of Working Days-17</b>			
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<b>Comparing Quantities</b>	Meaning of ratio and its simplest form	State the meaning of ratio and its simplest form	Lab Activity: To find the ratio of body measurements by activity method.
	Meaning of proportion	Understand the meaning of proportion	
	Unitary method for solving mathematical problems	Use method for solving mathematical problems	
	Conversion of fractions Decimal Ratios into percentages and vice versa.	Convert fractions, decimals, or ratios into percentages and vice versa.	
	Finding percentage	Find percentage	

<b>Data handling</b>	Data and types of data	Collect data and types of data	Lab Activity: To compare the marks obtained in all the subjects by a student in the first and the second semester examination in class VII by drawing a bar graph
	Central tendency(mean, mode and median)	Find the measure of central tendency(mean, mode and median)	
	Bar graphs and double bar graphs	Make bar graphs and double bar graphs	
	Probability	State the concept of probability	

<b>Web Link</b>	<a href="https://www.youtube.com/watch?v=px7VSyo4TiE&amp;index=3&amp;list=PLHOGBLPrsnMo-Rj3kGdsFAZeI8YQbN0Q">https://www.youtube.com/watch?v=px7VSyo4TiE&amp;index=3&amp;list=PLHOGBLPrsnMo-Rj3kGdsFAZeI8YQbN0Q</a>		
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<b>NOVEMBER Number of Working Days-20</b>			
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<b>Powers and Exponents</b>	Meaning of exponential expression and identify exponent and base	State the meaning of exponential expression and identify exponent and base	Lab Activity: To express exponents through paper folding.
	Laws of exponents	State and apply laws of exponents	
	Scientific notations	Write very large and very small numbers using the scientific notations	
<b>Visualising Solid shapes</b>	Plane and solid shapes	Differentiate between plane and solid shapes	Lab Activity: To make a paper dice using a net of a cube
	Faces, edges and vertices of solid shapes	Recognise faces, edges and vertices of solid shapes	
	Nets for solid shapes	Recognise and make nets for solid shapes	
	View of solid shapes from top, front and side	Analyse the view of solid shapes from top, front and side	
<b>Web Link</b>	<a href="https://youtu.be/oye6Qtl8y-E?list=PLHOGBLPrsnMrxXcKa6X4Kyt0N_I6WVC9Q">https://youtu.be/oye6Qtl8y-E?list=PLHOGBLPrsnMrxXcKa6X4Kyt0N_I6WVC9Q</a>		
<b>DECEMBER Number of Working Days-20</b>			
<b>Congruence of Triangles</b>	Meaning of congruence	State the meaning of congruence	Lab Activity: To prove that each diagonal of a parallelogram divides it into two congruent triangles.
	Conditions for congruence of geometrical figures	State and verify the conditions for congruence of geometrical figures	
	Conditions for congruence of triangles	Verify the conditions for congruence of triangles	
<b>Construction</b>	Construction of parallel lines to a line from a given point outside it	Construct parallel lines to a line from a given point outside it	

	Construction of triangles on the basis of SSS,SAS,ASA and RHS	Construct triangles on the basis of SSS,SAS,ASA and RHS	
<b>Web Link</b>	<a href="https://www.youtube.com/watch?v=609ZYHlbvno">https://www.youtube.com/watch?v=609ZYHlbvno</a>		
<b>JANUARY Number of Working Days-14</b>			
<b>Perimeter and area</b>	Perimeters of different figures	Find perimeters of different figures	Lab Activity: To find the area of a parallelogram.
	Concept of area, units of area	To state the concept of area, units of area	
	Area of a path in and around a field	Find the area of a path in and around a field	Lab Activity: To drive the relationship between circumference and diameter of a circle.
<b>Web links</b>	<a href="https://www.math-only-math.com/area-and-perimeter.html">https://www.math-only-math.com/area-and-perimeter.html</a>		



**SCIENCE****APRIL Number of Working Days-20**

<b>Topic</b>	<b>Sub-Topics</b>	<b>Expected Learning Outcomes</b> <b>Learners will be able to:</b>	<b>Activities</b>
Nutrition In Plants	Nutrition and its types	Define nutrition explain different types of nutrition	EXPERIMENT: To test a leaf for starch.
		Explain the process of photosynthesis. Label the structure of stomata.	
	Autotrophic nutrition and Heterotrophic nutrition	Differentiate between autotrophic and heterotrophic mode of nutrition	
	Saprotrophs and parasite	Examine other mode of plant nutrition such as parasitic and saprotrophic nutrition Define the key terms such as host, parasite, and lichens	
	Replenishing nutrients in the soil	Explain the role of nitrogen as special plant nutrient. Introduce a concept of mutualistic symbiosis	
Nutrition In Animals	Nutrition in Amoeba, Hydra and Frog	Identify the various processes involved in nutrition Explain the function of pseudopodia, tentacles, cilia and proboscis	EXPERIMENT: To study the effect of saliva on food.
	Human digestive system	Define the key terms such as digestion, absorption, egestion, villi. Draw the arrangement of teeth and different types of teeth	
	Ruminants	Explain the process of digestion in ruminants	
Web Link	<a href="https://youtu.be/rglzXT2szrk">https://youtu.be/rglzXT2szrk</a>		

**MAY Number of Working Days-10**

Structure Of Matter	Matter	Recall that everything around us is made up of matter Discuss the history of the current atomic model, including contributions of Dalton, Thomson and Bohr	
	Elements,	Define elements, compounds	

	compounds and mixture	and mixtures Differentiate between elements and compounds	
	Tools for communication- Symbols, Formulae and chemical equations	Give the names and symbols of common elements Define valency Write the formula for different compounds	
Animals Fibres	Clothes	Recall the variety of clothes and their fabric	Debate: whether it is right to shear off the wool of sheep for own benefit.
	Natural fibres	Name some natural fibres. Differentiate between plant and animal fibre	
	Process of wool	Recall the name of some animals that give wool Learn the meaning of rearing, shearing, scouring, sorting, and breeding Reflect on whether it is right to shear off the wool of sheep for own benefit	
	Process of silk	Recall the name of some animals that give silk Define sericulture Explain the life cycle of a silk moth List some health conditions of workers in the sericulture industry	
Web Link	<a href="https://youtu.be/sYZ3ETjK8_Y">https://youtu.be/sYZ3ETjK8_Y</a>		

### JULY Number of Working Days-20

Heat and Its Effect Flow of Heat	Heat	Know that heat can move from one place to another. Explain the different methods of heat transfer and the role insulators play in the process	
	Effects of heat	List some effects of heat	
	Expansion in solid, liquid and gas	Do an experiment of expansion in solid, liquid and gases	Lab activity: Solid expands on heating
	Temperature- celsius and Fahrenheit scale.	Define the term temperature Differentiate between Celsius and Fahrenheit scale	To measure body temperature using a clinical thermometer.
	Types of thermometer	Know the function of clinical and laboratory thermometer	

Acids, Bases and Salts	Acids and bases-their properties	Define the term acids, bases, salts, Differentiate between Acids and Bases List some properties of an acid and base	Lab activity: Test for base and acid litmus test for base and acid
	Testing for acids and bases	Know the role of Natural indicators in identification of acids and bases. Perform a series of experiment using acid- base Indicators	Using Methyl orange, Phenolphthalein, litmus paper
	Uses of acids and bases	Name some useful acid and base	
		Explain the concept of neutralisation. Know the importance of neutralisation. In daily life. List uses of some salts	
Physical and Chemical changes	Physical and chemical changes	Learner will be able to: Define the terms Physical change and chemical change. Differentiate between Physical change and chemical change. Identify the physical and chemical change	To demonstrate the burning a candle is physical as well as chemical change.
	Characteristics of chemical reactions	List some characteristics of chemical reaction. Differentiate between endothermic and exothermic reactions	
	Types of chemical reactions	Name some important types of chemical reactions	
	Separating a solid from a solution	Compare and contrast various methods of separation of solid from a solution. Perform simple experiments involving separation of solid from a solution	Lab activity: To separate common salt dissolved in salt.
Web Link	<a href="https://youtu.be/e1VYudnPfns">https://youtu.be/e1VYudnPfns</a> , <a href="https://youtu.be/oVxTeDUBcYk">https://youtu.be/oVxTeDUBcYk</a>		

**AUGUST Number of Working Days-20**

Weather, Climate And Adaptation	Weather- elements of weather	Define the terms Adaptation, Climate and weather	
	Climate	Relate the adaptation of animals with their climate	
	Effects of the sun	Recall the instruments used to	

	on climate	measure temperature and rainfall	
	Adaptations of animals	Identify the Polar Regions and the tropical rainforest and classify the animals living in these areas	
Soil	Composition of soil	List the main components of soil.	To find the absorption rate of water by the different samples of soil.
	Formation of soil	Explain the process of formation of soil	
	Soil profile	Describe soil profile and illustrate it	
	Types of soil	Recall the different soil types	
	Properties of soil	Differentiate between different types of soil on the basis of their properties	
	Soil and crops	Relate the soil to crops	
		Discuss soil erosion	
Web Links	<a href="https://youtu.be/SgtYnDedQbM">https://youtu.be/SgtYnDedQbM</a> , <a href="https://youtu.be/eKXv4xQ4mOQ">https://youtu.be/eKXv4xQ4mOQ</a>		
<b>OCTOBER Number of Working Days-17</b>			
Respiration	Respiration in plants	Explain the function of stomata.	
	Respiration in Animals	Explain how do different animals like earthworm, cockroach etc breathe	Making a model: Mechanism of breathing through lungs.
	Respiratory system in humans	Define Breathing. Know the function of ribcage and windpipe	
	Types of respiration	Differentiate between aerobic and anaerobic respiration	
Tranportation Of Materials In Plants And Animals	Transportation of materials in plants	Define xylem and phloem and recognize its location in the plant	Experiment: Xylem conducts water in plants
	Transportation of materials in animals	Draw the structure of heart and explain its function. Discuss the various types of blood vessels	To demonstrates the process of transpiration
	Excretion in animals and humans	Describe the function of human excretory system	
Web Links	<a href="https://youtu.be/-FrMbpWug3k">https://youtu.be/-FrMbpWug3k</a> , <a href="https://youtu.be/20_ULuz8R5U">https://youtu.be/20_ULuz8R5U</a>		

**NOVEMBER Number of Working Days-20**

Reproduction In Plants	Asexual reproduction	Describe the different modes of reproduction. Define Reproduction. List different forms of asexual reproduction in plants	To dissect a flower to show its different parts.
	Vegetative reproduction	Define grafting, layering, cutting,	
	Sexual reproduction	Differentiate between asexual and sexual reproduction. Label the structure of flower	
Motion And Time	Standard units	Know the importance of standard units.	To determine the time period of simple pendulum
	Measurements of time and distance	Measure the distance correctly by avoiding common errors. Define time period of simple pendulum	
	Speed	Calculate the speed for given distance	
	Uniform and Non-uniform motion	Differentiate between uniform and non-uniform motion	
	Distance-time graph	Draw a distance-time graph for uniform and non-uniform motion	
Web Links	<a href="https://youtu.be/2ycl2E9r-o">https://youtu.be/2ycl2E9r-o</a> , <a href="https://youtu.be/7zpz37y5DFg">https://youtu.be/7zpz37y5DFg</a> ,		

**DECEMBER Number of Working Days-20**

Winds, Storms And Cyclones	Natural disasters	Define natural disasters. Name some natural disasters. List the harmful effects on disasters	To prove that air expands on heating.
	Air pressure	Give some properties of air.	
	High speed wind causes reduced pressure	Understand the causes of wind	
	Air expands on heating	Do an experiment of air expands on heating.	
	Wind currents	Explain how air current is generated.	
	Thunderstorms, cyclones and tornadoes	Describe the formation of thunderstorms and cyclones	
	Cyclone forecasting and warning	Take precautions during thunderstorm and cyclones	
Light	Rectilinear propagation of light	Show that light travels in a straight line	To show the light travels in a straight line

	Reflection of light	Define reflection. State the different laws of reflection	
	Real and virtual image	Differentiate between real and virtual image	To prove the laws of reflection by using a plane mirror.
	Spherical mirrors	Name different types of mirrors. List the characteristics of images formed by spherical mirrors. Give uses of spherical mirrors.	
	Lens	Do an experiment of image formation by convex and concave lens	
	Spectrum	Explain the concept of spectrum and dispersion.	
Web Links	<a href="https://youtu.be/B50S8JcBMk">https://youtu.be/B50S8JcBMk</a> , <a href="https://youtu.be/Wx0GIDvvyMIY">https://youtu.be/Wx0GIDvvyMIY</a>		

### JANUARY Number of Working Days-14

Electric Current And Its Effects	Electric current and circuit	Model the flow of electrons in a circuit	Model: To make an electromagnet.
		Build an actual electric circuit	
		Draw diagrams of electric circuits	
		Explain how to tell when the path of an electric circuit is complete	
		Test the conductivity of a variety of materials	
	Effects of electric current	Discuss the heating and magnetic effect of electric current.	
	The electromagnet	Make an electromagnet	
Water	Water: a renewable resources	Differentiate between renewable and non renewable source of energy	
	Shortage of water	Study about the events by which students will come to know about shortage of water and its importance in our day today life.	Poster making on water conservation.
	States of water	Study about the need of different states of water and its availability	
	Water cycle	Draw the water cycle. Define Evaporation, transpiration, condensation	
	Water conservation	List the different methods of water conservation	

Web Link	<a href="https://youtu.be/4Qi3N5m3gGs">https://youtu.be/4Qi3N5m3gGs</a>
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<b>SOCIAL SCIENCE</b>			
<b>APRIL Number of Working Days-20</b>			
<b>Topic</b>	<b>Sub-Topics</b>	<b>Expected Learning Outcomes Learners will be able to:</b>	<b>Activities</b>
History Ch- 1. The Medieval World	Names of India	Know and understand the meaning of Medieval Period List the different names of India during ancient period	
	Sources	List the various archaeological and literary sources which provide information on The Medieval Period Differentiate between the ancient and medieval period	
History Ch- 2. The Regional Kingdoms- I	Kingdoms in North India	List the various Hindu rulers of different provinces of North India during AD 700 to AD 1200 To identify the effects of Turkish invasions	
	Kingdoms in Deccan and South India	Appreciate the various administration policies which helped Cholas in their emergence as powerful kingdom during 9th century AD	
Geography Ch- 1. Our Environment	Components of the Environment	Know meaning and understand the three components of the environment Define the biotic and abiotic environment with examples	
	Four Domains Of the Earth and Ecosystem	Classify the four domains - lithosphere, hydrosphere, atmosphere and biosphere Identify the significance of the four domains Relate the components of the environment and the ecosystem	Be an Environmentalist- Slogan writing to suggest the ways to protect and conserve the neighbourhood environment.
	Human Environment	Understand the meaning of human environment and its dependence on the natural environment Relate the interaction of both List the various activities which pollute the environment Evaluate critically the impact of exploitation by human on the nature	

Social & Political life Ch- 1. Democracy	Forms of Government	Know the different types of government in the world's democracy Differentiate between direct and indirect democracy	
	Constitution and Preamble	Understand the meaning of democracy and constitution in Indian government Identify the significance of fundamental rights and duties laid down in the Indian constitution	

Web Link

<https://www.wri.org/our-work/world>

**MAY Number of Working Days-14**

History Ch- 3. The Sultanate Period	The Slave Dynasty	Know about the different invaders from central India List the rulers of Slave dynasty from AD 1206 to AD 1290 Identify the reasons why the dynasty called the slave dynasty Appreciate the only women Islamic ruler Raziya Sultan	Be A Reporter- 'The Yester year's Time line', the class will be divided into groups and each group will make a magazine of each dynasty mentioning the name of rulers with time line, their policies and achievements
	The Khalji Dynasty	Critically understand the reasons of expansion of Islamic Delhi Sultans towards Gujrat and Malwa	
	The Tughluq Dynasty	List the rulers of the dynasty which ruled North India for almost a century Analyze the reasons of decline of a very powerful Tughluq dynasty	
	The Sayyid and Lodi Dynasty	Identify the reasons why these Delhi Sultans were not successful in conquering the Deccan and South India	
Geography Ch- 2. Inside Our Earth	Structure of the Earth	Know and understand the different layers of the Earth Classify the three layers on the basis of density and chemical properties of rocks	
	Materials of the Earth's crust	Classify the types of rocks into igneous, sedimentary and metamorphic rocks Identify the characteristics of the various rocks	



	Rock Cycle	Understand and relate the formation of various rocks with the passage of time List the uses of rocks and minerals.	Be the Geologist- draw the diagram of the Rock Cycle
Geography Ch- 3. The Changing Earth	Introduction of Wegner's Theory of continental drift	Define Pangaea Classify the process of changing the shape of continents and oceans over the passage of 65 million years ago Explain the concept of plate tectonics	
	Endogenic and Exogenic Forces	Define and differentiate between endogenic and exogenic forces in the formation of the landforms Elaborate the sudden and diastrophic forces	
	Earthquakes and Volcanoes	Identify the process of earthquakes and volcanoes List the different types of earthquakes waves Relate the various landforms over the passage of time because of these two forces Relate the natural calamities and the after effects	Mock drill- The learners will learn how to save themselves during a sudden earthquake in their area.
Social & Political life Ch-2. Pillars of Democracy	Features of democracy	Identify the importance of political awareness in a democratic government List the prerequisites for political parties in a democracy Discuss the significance of equality and dignity of all in a democracy	
Web Link	<a href="http://www.bbc.co.uk">www.bbc.co.uk</a>		
<b>JULY Number of Working Days-22</b>			
Geography Ch- 4. Major Landforms	Aggradation and Degradation	Know and understand the process of weathering by erosion and deposition Identify the various factors responsible for weathering Classify the various landforms made by the river, sea waves, wind and moving ice Distinguish between the natural and man-made factors responsible for the various landforms	
	Erosion and deposition	Relate the process of formation of fertile plains and deltas Discuss the role of wind in making	

		different landforms	
	Names of landforms	List and identify the different landforms made by the glaciers List the various waterfalls or valleys made by the different exogenic factors on the earth	
Geography Ch- 5. Composition and Structure of the Atmosphere	Composition of the Atmosphere	Know the composition of air Classify the various gases and their percentage in the air Identify the significance of each component of air like nitrogen, oxygen and carbon dioxide	
	Structure of Atmosphere	List the different layers of atmosphere Identify the main features of troposphere, stratosphere and other layers	
	Significance of the Atmosphere	Identify the significance of atmosphere on the earth Analyze the importance of ozone layer Critically discuss the various reasons of air pollution Discuss the ways to stop air pollution for a better atmospheric conditions	Debate- Humans are the biggest cause of Air pollution and Global warming
History Ch- 4. The Regional Kingdoms- 2	The emergence of regional empires	Critically analyze the gradual decline of Delhi Sultans and prominence of regional rulers of Kashmir, Mewar, Bengal, Gujrat and Vijaynagar	Map- marking of India in 15th century AD, the various smaller provinces under different rulers
History Ch- 5. The Great Mughals	Invasion of Babur in 1526	Identify who invited Babur to defeat Ibrahim Lodi, the first battle of Panipat and analyze the aftereffects	
	The Sur Empire (1540-1555)	Critically analyze the reasons of Humayun's exile from India and the rule of powerful Sher Shah	
	Akbar (1556 - 1605)	List the various reasons how Akbar became a successful ruler and ruled entire North India for almost 40 years	
	Jahangir (1605 - 1627)	Differentiate the policies of Akbar's successor's and decline of Mughal Empire during Aurangzeb rule List the administration policies which brought the downfall of The Great Mughals in 17th century AD	Role-Play - The learners will play the role of the Mughal emperors and the courtiers, their administration policies and decisions which

			affected the life of common man and their rule
Social & Political life Ch- 3.Democracy In Action	Universal Adult Franchise	Define the universal adult franchise. Discuss the importance of each vote and equality in politics in India	
	Elections Procedure	Know and understand the basic terms, committees and procedure involved in elections Identify the significance of secret ballot List the functions of election commission Discuss the duties of election officers	Mock Elections- To elect the class representatives.
	Political parties in India	List the functions of political parties Understand the significance of role of opposition parties in democracy Define and critically discuss the coalition government List the state and national political parties	

**AUGUST Number of Working Days-17**

History Ch- 6. Monumental Architecture	Architecture in different periods	Know and understand the different styles of architecture in early medieval, Sultanate period Differentiate between the different styles i.e. Indian and Mughal List the various monuments build by the Mughals and other Delhi Sultans Identify the construction of various temples in South India during the rule of different rulers and their purpose	Make a Magazine- The learners will select any one monument or Temple of medieval period and paste the pictures and also write the name of the ruler who constructed it, in which year and the purpose, where is it located in present day India.
Geography Ch-6. Weather and Climate	Atmospheric temperature	Define the main elements of weather and climate Identify the circumstances of heating of the atmosphere	
	Atmospheric pressure	Explain the factors responsible for the change in atmospheric pressure on the earth's surface Recall the three heat zones and their significance in the atmospheric pressure	
	Winds	List the different types of winds and	Be a weather

		the direction in which they move in different directions causing change in weather Distinguish between the permanent and periodic winds	specialist- record the temperature, rainfall and weather conditions for a week and do a comparative study.
	Moisture	Classify relative and absolute humidity List the main forms of precipitation Classify the three types of rainfall	
Social & Political life Ch- 4. State Government	State Legislature- Council and Assembly	Define Legislative Council and Legislative Assembly Discuss the role of the two bodies in state government Explain the duties and powers of the Chief Minister and Speaker List the functions of the two houses of the state government	Mock Assembly- The learners will play the role of ministers of the legislative council in passing a bill.
	State Functionaries	Elaborate the responsibilities and power of the Governor in the state government List the functions of the head of the state government Discuss the procedure of passing a bill in the Legislative Assembly	
Web Link	<a href="https://www.importantindia.com">https://www.importantindia.com</a>		

**OCTOBER Number of Working Days-19**

History Ch- 7. Towns, Traders and Craftsmen	Types of towns, traders and the craftsmen	Understand the various reasons the towns grew in the medieval period for different reasons like, for crafts, commercial and trading towns, and the temple towns List the significance of various activities in the development of the towns Appreciate the construction of the various social activities which grew around the temples as those provided the occupation to common man	
History Ch- 8. Tribal Communities	Tribal Societies, Occupations and kingdoms	Define the meaning of tribe List the various occupations of the tribes	Map-Marking - the learners will locate the different places

		Discuss the life style and role of tribes Justify the establishment of tribes into powerful kingdoms	inhabited by the tribes in Indian political map during Medieval Period.
Geography Ch- 7. Water	Distribution of water bodies	Explain the working of hydrological cycle Describe the salinity of the ocean water	
	Waves and tides	Identify the occurrence of tides and their importance	
	Ocean currents	Identify the influence of ocean currents in the climate of coastal areas	
Geography Ch- 8. Natural Vegetation and Wildlife	Forests- Tropical and Temperate Evergreen and Deciduous	List the features of forests in tropical and temperate heat zones Identify the various varieties of vegetation available in the different latitudes Distinguish between evergreen and deciduous forests	Nature Walk- The learners will be taken on a nature walk to observe the variety of plants and the animals in our surrounding
	Mediterranean and Coniferous Forests	Explain the climatic conditions of Mediterranean and coniferous forests Differentiate almost these two types of vegetation	
	Grasslands and Shrubs	Classify the difference between the forests and grasslands Explain the importance of the two green lands in nature and for humans also	Map- Marking - The learners will locate the variety of vegetation in the world political map.
	Desert and Tundra Vegetation	List the various type of vegetation found in dry hot and cold desert Identify the characteristics of the vegetation of desert and tundra region	
	Wildlife	Classify and differentiate the varied wildlife of the three zones	
Social & Political life Ch- 5. Media and Democracy	Role of media in Democracy	List the objectives of mass media Critically analyze the ethical principles followed by the mass media while reporting any incident Discuss the responsibility of media in a democratic country Discuss the impact of report of any incident on the common man	
Web Link	<a href="https://www.worldatlas.com">https://www.worldatlas.com</a>		

**NOVEMBER Number of Working Days-15**

Geography Ch- 9. Human Environment	Settlements- Rural and Urban	List the various types of human settlement since the evolution of the mankind from hunter-gatherers to tribes Explain the causes of different types of settlements like, rural, urban, compact, scattered etc Understand the significance of the interdependence of rural and urban settlements	Map Marking- To mark the international air route on the world political map.
	Transport	List the various means of road, rail, air and water transport Explain the importance of the faster and mechanical means of transport in today's global era	
	Communication	Explain the facilities available because of the development of means of communication	
Geography Ch- 10. Life in Tropical and Sub- Tropical Regions	The Amazon basin	Describe the location and extent of Amazon basin Establish the relationship between the climatic conditions and the occupation and life of people in Amazon basin	Map-Marking- To locate the Amazon and Ganga - Brahmaputra Basin on the World political map.
	The Ganga- Brahmaputra basin	Describe the location and extent of Ganga - Brahmaputra basin Identify the reasons of the densely populated region of India Explain the differences between the Amazon and Ganga-Brahmaputra basin	
History Ch- 9. Religious Beliefs	The Bhakti Tradition, saints and teachings of different religions	Know about the followers of different religions and the saints who preached about the oneness of God and inner soul Appreciate the presence and acceptance of various devotions and their beliefs in the life of common man  Understand that true goodness lies in the humility, loving and helping the fellow beings List the rise of various religious saints like Kabir, Mirabai, Guru Nanak and Nizam-ud-din Auliya	Be a Saint- To develop the sensibility the learners will be asked to compose a short poem offering thanks to the Almighty.
Social & Political life	Types of Advertising	List and the various types of	

Ch- 6. Advertising		democracy Distinguish between the commercial, social and political advertising	
	Objectives of Advertising	Describe the objectives of advertising Identify the process of creating a brand value Discuss the influence of advertising on the common man	
	Techniques of Advertising	Classify the various techniques involved in making any advertisement impressive and convincing	
Social & Political life Ch- 7. Markets Around Us	Importance of markets	List the different types of markets Signify the availability of markets around us Relate the benefits of markets in our daily life	The learners will create social advertisement to create awareness for pollution free environment
	Channels of distribution	Identify the various channels of distribution of products in the market Distinguish between the wholesale trade and retail trade Critically analyze the inequality in the market , among the buyers as well as traders	
Web Link	<a href="https://www.hq.nasa.gov">https://www.hq.nasa.gov</a> .		
<b>DECEMBER Number of Working Days-19</b>			
History Ch- 10. The Flowering of Regional Cultures	Language Literature Painting Music and dance in different regions	Discuss the emergence of different cultures in various Indian provinces based on the region and religions Appreciate the different styles of arts which highlights the preferences of different cultures	Collage- The learners will make a collage of different art forms of only one state of present day India and will also mention their period of origin.
History Ch- 11. Political Formations in the Eighteenth Century	Emergence of Small regional kingdoms like in Awadh, Bengal, Hyderabad, Rajputs and Marathas in 18th century AD.	Critically analyze the emergence of rulers after suppressing the weak Mughal successors in almost the entire India List the various rulers who made separate political groups based on region and religions Elaborate the various administration and revenue policies which brought the decline of Mughal Empire in the 18th century AD	Map- marking - Locate the places of the various political formations on Indian political map.

Geography Ch- 11. Life in Temperate Grasslands	The Prairies	Describe the location and extent of the Temperate grasslands i.e. The Prairies Identify the climatic conditions making the agriculture the main economic activity of the region Explore the various physical features of the Amazon basin	Map- marking - Locate the Prairies and the Velds on the World political map.
	The Velds	Describe the location and extent of the Velds Distinguish between the Prairies and The Velds Identify the flora and fauna of the temperate zones	
Geography Ch- 12. Life in Deserts	Sahara- A Hot Desert	Describe the location and extent of the Sahara desert Discuss the lifestyle and occupation of the people of the world's hottest and largest desert	Map- marking - Locate the Sahara and the Ladakh on the World political map.
	Ladakh- a Cold Desert	Describe the location and extent of the India's coldest desert Discuss the occupation and life of the people in the extreme climatic conditions	
Social & Political life Ch- 8. Role of Gender	Sex and gender are not the same	Define sex and explain the difference between the two terms Describe the role of gender prejudices in the nurturing a child Discuss the opinion of the society and existing inequalities because of the gender biased mindset	Case Study- The learners will study the cases of empowered women and courageous step towards the society in 21st century.
	The invisibility of the women's work	Identify the areas of discrimination on the basis of gender especially with girls and women Discuss and debate on the equality among both the sexes Explore about the male dominating occupations where women in India are now working	
Web Link	<a href="https://www.slideshare.net">https://www.slideshare.net</a>		
<b>JANUARY Number of Working Days-14</b>			
Social & Political life Ch- 9. India and Democracy	A vibrant democracy	Identify the challenges to meet the true democratic status for India Explain the role of education masses in the democracy Differentiate between democracy	



		and dictatorship Discuss the challenges in the Indian democracy	
Web Link	<a href="http://www.ndma.gov.in">www.ndma.gov.in</a>		

**APRIL Number of Working Days-20**

<b>Topic</b>	<b>Sub-Topics</b>	<b>Expected Learning Outcomes Learners will be able to:</b>	<b>Activities</b>
<b>Number System</b>	Decimal Number System Binary Number System Conversion of Decimal into Binary number system Binary to Decimal conversion Octal Number system Hexadecimal Number System Computer Arithmetic	Recognize different types of number systems as they relate to computers Identify and define unit, number, base/radix, positional notation, and most and least significant digits as they relate to decimal, binary, octal, and hexadecimal number systems Add ,Multiplication, Division and subtract in binary Convert values from decimal, binary, octal, hexadecimal number systems to each other and back to the other systems	
<b>Formulas and Functions</b>	Formulas and its Elements Basic Formula and Compound Formula Text Formula and Using a range in Formula Cell References and their types Functions	Create a basic formula Understand the use of compound and text formula. Define cell referencing Use the cell reference of one worksheet in another worksheet Use different functions in Microsoft Excel. Define relative, absolute and mixed referencing	Write at least two real life situations, where Excel functions could be used. For example, to calculate your daily expenses
<b>Links:</b>	<a href="https://www.utdallas.edu/~dodge/EE2310/lec2.pdf">https://www.utdallas.edu/~dodge/EE2310/lec2.pdf</a> <a href="https://www.ablebits.com/office-addins-blog/2017/06/14/basic-excel-formulas-functions-examples/">https://www.ablebits.com/office-addins-blog/2017/06/14/basic-excel-formulas-functions-examples/</a>		

**MAY Number of Working Days-10**

<b>Advanced Features of Excel</b>	Chart and its Components Creating and Formatting a chart Consolidating Data Commonly used Chart types Grouping Worksheet Using Goal Seek	Define chart and mention its advantages Identify the components of a chart Identify and define different types of charts Create charts in Microsoft Excel 2010 Change the chart type and chart style Change/delete text and data in a chart	Collect the weather forecast for a week using Internet. Use the data to create the following charts: a) Line chart b) Bar chart c) Column chart
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		Use a goal Seek feature	
<b>Links</b>	<a href="https://excelwithbusiness.com/blog/top-10-excel-features/">https://excelwithbusiness.com/blog/top-10-excel-features/</a> <a href="http://www.mulgatrainiq.com.au/learning/advancedexcel.pdf">http://www.mulgatrainiq.com.au/learning/advancedexcel.pdf</a>		
<b>JULY Number of Working Days-20</b>			
<b>Log on to Animate CC</b>	<p>Animate</p> <p>To open Animate</p> <p>The Workspace</p> <p>Setting Document Properties</p> <p>Drawing an Object and Grouping Outline with Fill</p> <p>Applying Gradient Fill</p> <p>Creating a new Gradient</p> <p>Modifying a Linear Gradient</p> <p>Modifying a Radial Gradient</p> <p>Editing Objects</p> <p>Importing Graphics</p> <p>Animation in Animate</p> <p>Tint Tweening</p> <p>Creating a simple text shape tween</p> <p>Applying filters to Text</p> <p>Animating filtered text</p>	<p>Create animation that consists of images,sounds and videos</p> <p>Open Animate</p> <p>Explore the workspace of Animate Cc</p> <p>Set the document properties</p> <p>Change the setting of an already opened document</p> <p>Make a drawing in animate</p> <p>Make a gradients by mixing of two or more colour.</p> <p>Filled the linear gradient shade</p> <p>Modify a radial gradient filled</p> <p>Create an animation in animate by using Frame –By Frame and t Tweened Animation</p> <p>Change the colour of an object using Tint</p> <p>Add inserting visual effects to text,buttons, and movie clips using Filters.</p>	<p>Create a rainy day scene. By applying the background, applying rain.</p>
<b>Links</b>	<a href="https://www.youtube.com/watch?v=VGKBam84ZAA">https://www.youtube.com/watch?v=VGKBam84ZAA</a> <a href="https://helpx.adobe.com/in/animate/tutorials.html">https://helpx.adobe.com/in/animate/tutorials.html</a>		
<b>AUGUST Number of Working Days-20</b>			

<b>Working with Layers</b>	Layers, Selecting , and Renaming a layer Adding Layers and Changing their order Hide, Show and Lock a Layer Making in Animation Rotation with Masking Effect	Organize content with layers Move content from one layer to another select the content you want to move in the Layers panel and drag the color box to the right of the layer name up or down to the new position Locate objects in the Layers panel, select artwork in the document and then click Locate Object at the bottom of the Layers panel Hide individual objects, click the eye icon in the Layers panel to the left of the object name in the Layers panel	Make a Solar System in Animate. Apply the rotation on the planets.
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**OCTOBER Number of Working Days-17**

<b>Introduction Python</b>	Introduction to python Installing Python Components of python window Variables in Python Working in Script Mode Data Types Basic Data Types in Python Input() Function	Install and run the Python interpreter Create and execute Python programs Understand the concepts of file I/O Read data from a text file using Python Plot data using appropriate Python visualization libraries Wok in script mode accept the value for a variable from the user using Input()function.	WRP to input the roll number, name, and marks in five subjects of a student. Calculate the total and percentage marks of the student.
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<b>Links</b>	<a href="https://www.tutorialspoint.com/python/">https://www.tutorialspoint.com/python/</a> <a href="https://www.w3schools.com/python/">https://www.w3schools.com/python/</a>
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**NOVEMBER Number of Working Days-20**

<b>More on Python</b>	Types of Operators in Python Operator Precedence Algorithm Flowchart Conditional Statements in Python Types of Control Structures Conditional Statements if, If..else, and If...elif ..else	Perform arithmetic and logical operations on operands and provide a meaningful result. Use string operators on the strings Join two strings Use logical operators on statements Use different control statement in case of multiple condition.	Create a program in Python to find if a year is a leap year or not .A year is a leap year if it is divisible by 4
<b>More On CSS 3</b>	Inline Style Text Properties Font Properties Margin Properties Border Properties	Enhance the look of the different elements on a web page. Declare a style by using Inline Style method Change the settings and appearance of individual characters in a line of text Set the border style ,border colour, and border width of an HTML element.	Create a web page on the topic Tourist Places of India. Set a suitable background colour, image, font, and font colour for the web page .Also set the top and bottom margins.
<b>Links:</b>	<a href="https://www.w3resources.com">https://www.w3resources.com</a> <a href="https://www.programiz.com/python">https://www.programiz.com/python</a> -programming/operators		
<b>DECEMBER Number of Working Days-20</b>			
<b>Using List and Tables in HTML 5</b>	Lists Unordered List Ordered List List Properties Description list Tables Table Properties	Understand the difference between constant and variable Write a program using Go To Statement IF...THEN...ELSE Statement END IF Statement ELSEIF with END IF Statement Read-Data Statement	Create a web page displaying their personal profile, portraying their aim in life, and their hobbies and strengths that make them unique. Use the required HTML tags to beautify your web page including Lists and tables.
<b>Links:</b>	<a href="https://www.tutorialspoint.com/html/html_tables.html">https://www.tutorialspoint.com/html/html_tables.html</a> <a href="https://www.html-5-tutorial.com/ul-ol-tags.htm">https://www.html-5-tutorial.com/ul-ol-tags.htm</a>		
<b>JANUARY Number of Working Days-14</b>			

<b>Cyber Safety.</b>	Internet Advantages and Disadvantages of the Internet Computing Ethics Unethical Practices Cybercrime Safety Measures while using Computer and the Internet Digital Footprint	Aware of possible internet dangers. List the types of personal information it is not safe to share online Outline safe internet behaviors Provide examples of information that should not be shared online Identify examples of cyber-bullying	Group discussion on: Hacker vs Cracker Cyber Bullying vs Cyber Trafficking
<b>Links:</b>	<a href="https://usa.kaspersky.com/resource-center/preemptive-safety/top-10-internet-safety-rules-and-what-not-to-do-online">https://usa.kaspersky.com/resource-center/preemptive-safety/top-10-internet-safety-rules-and-what-not-to-do-online</a> <a href="https://www.nypl.org/help/about-nypl/legal-notice/internet-safety-tips">https://www.nypl.org/help/about-nypl/legal-notice/internet-safety-tips</a>		

<b>FRENCH</b>			
<b>APRIL Number of Working Days-20</b>			
<b>Topic</b>	<b>Sub-Topics</b>	<b>Expected Learning Outcomes Learners will be able to:</b>	<b>Activities</b>
L-0 Un coup d'oeil sur la France	Fact Files	More about French culture	
L-1 Voila le frere et la soeur de Manuel	Les verbes, Le corps humain	Body parts in French	Paste the parts of body in copy and name them
<b>MAY Number of Working Days-10</b>			
L-2 A la cafeteria	Le pluriel des noms, Les verbes (ir)	Learn to choose things	

<b>JULY Number of Working Days-20</b>			
L-3 Mon pays: La France	Le feminin et le pluriel des adjectives	Talk about nationalities	Describe someone(friend, teacher etc)
L-4 Les parents de Manuel	La negation, Lesverbes (ger) Les profession	Giving or receiving personnel information	Identity card(in French)
<b>AUGUST Number of Working Days-20</b>			
L-5 C'est Noel	Les verbes- eter,eler,cer	Talk about seasons	5 Lines on favourite season
<b>OCTOBER Number of Working Days-17</b>			
L-6 Allons a l'ecole	Les prepositions.Les verbes (re)	Speak about the location of objects	To prepare flash Card of each preposition
L-7 Dans un grand magasin	Les article contractes. L'interrgation lesvetements	Learn to ask or offer something in French	
<b>NOVEMBER Number of Working Days-20</b>			
L-8 Les repas	les article partitifs, les verbestir)	Learn about different types of meals in France	
<b>DECEMBER Number of Working Days-20</b>			
L-9 Ma maison	Les adjectifs possessifs	Describe a place and forming questions	Describe your house
L-10 Une lettre de Rouen	les verbes irreguliers	Describing a city	
<b>JANUARY Number of Working Days-14</b>			
L-10 Une lettre de Rouen	Uneletter	Letter writing	

### **SANSKRIT**

<b>APRIL Number of Working Days-20</b>			
<b>Topic</b>	<b>Sub-Topics</b>	<b>Expected Learning Outcomes Learners will be able to:</b>	<b>Activities</b>

वर्णमाला	स्वर व्यंजन अनुस्वार विसर्ग संयुक्तव्यंजन वर्णविच्छेद वर्णसंयोग	स्वर व्यंजन अनुस्वार विसर्ग हलन्त संयुक्त व्यंजन  वर्णविच्छेद वर्णसंयोग का ज्ञान	
प्रथमः पाठः-सप्तमी कक्षा		कठिन शब्दों आकारान्त शब्दों विभिन्न धातुओं अव्यय शब्दों स्त्रीलिंग शब्द रूप का ज्ञान	
<b>MAY Number of Working Days-10</b>			
द्वितीय पाठः - वन भोजः	धातु रूप— लट् लकार लृट् लकार	कठिन शब्दों सर्वनाम शब्दों विभिन्न धातुओं विशेषण शब्दों अव्यय शब्दों तथा लृटलकार तथा लङ्गलकार का ज्ञान	
<b>JULY Number of Working Days-20</b>			
पाठः-१ उच्चारणस्थाननि		वर्णों के उच्चारण स्थान का ज्ञान	
षष्ठः पाठः अस्माकं देशः भारतवर्षः	धातु रूप— लड० लकार	कठिन शब्दों सर्वनाम शब्दों विभिन्न धातुओं विशेषण- विशेष्य शब्दों अव्यय शब्दों लोटलकार का ज्ञान	
अष्टमः पाठः श्लोक- सम्मुच्चयः		कठिन शब्दों तथा श्लोकों के अर्थ का ज्ञान	
<b>AUGUST Number of Working Days-20</b>			
संख्या ,पर्यायाः एवं विपर्यायाः	धातु रूप— लोट् लकार	१-३० तककीसंख्याओंकाज्ञान,पर्यायाः:तथाविपर्यायाकाअ र्थतथाशब्दोंकाज्ञान	



एकादश पाठः भागीरथी		कठिन शब्दों आकारांत व ईकारांत शब्दों सर्वनाम शब्दों विभिन्न धातुओं विशेषण- विशेष्य शब्दों अव्यय शब्दों कारक- उपपद विभक्ति तथा शब्द रूप का ज्ञान	
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द्वादशः पाठः राष्ट्रदेवो भव		कठिन शब्दों तथा श्लोकों के अर्थ का ज्ञान	
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### OCTOBER Number of Working Days-20

शब्दरूप प्रकरण त्रयोदशः पाठः ऋषीणाम देशः	समय लेखनम्	कठिन शब्दों सर्वनाम शब्दों विभिन्न धातुओं , विशेषण- विशेष्य शब्दों अव्यय शब्दों, कारक- उपपद विभक्ति तथा वचनों का ज्ञान	
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पंचदशः पाठ ऋतुराजः वसंत		कठिन शब्दों उकारांत शब्दों सर्वनाम शब्दों विभिन्न धातुओं विपर्याय शब्दों अव्यय शब्दों कारक- उपपद विभक्तियों का ज्ञान	
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### NOVEMBER Number of Working Days-17

पत्रलेखनम् , संधि		पत्रलेखन के बिंदुओं का ज्ञान तथा संधि के अर्थ, भेद व स्वर संधि का ज्ञान	
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चतुर्दशः पाठः सुभाषितानि		कठिन शब्दों पर्याय व विपर्याय शब्दों श्लोकों के अर्थ का ज्ञान	
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### DECEMBER Number of Working Days-20

चित्रवर्णन ,वार्तालापः		चित्रवर्णन व वार्तालापः के विभिन्न बिंदुओं का ज्ञान	
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पंचमः पाठः गृध्र-माज्जारि कथा	चित्र वर्णनम्	कठिन शब्दों प्रकृति-प्रत्यय विभाग भूतकालिक-निपात स्म शब्द उपपद विभक्तियों का ज्ञान	
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**JANUARY Number of Working Days-14**

चित्रवर्णन, गद्यांश		चित्रवर्णन व गद्यांश के विभिन्न बिंदुओं का ज्ञान	
चतुर्थ पाठ: अहम् आत्म		कठिन शब्दों क्त्वा प्रत्यय सर्वनाम शब्दों विपर्याय शब्दों उपपद विभक्तियों का ज्ञान	

**ART****APRIL Number of working days- 20**

Topic	Sub-Topics	Expected Learning Outcomes Learners will be able to:	Activities
Introduction of art elements. Still life Drawing	Drawing Equipemt Drawing Terms Still Life Drawing	Practice of using short,long,lines can make student good in art work	Still life drawing with lines

**MAY Number of working days-10**

Sculpture making Tie - Dye	Sculpture making Tie - Dye	Know about sculpture making Know how to make tie-dye	Sculpture making Tie - Dye
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**JULY Number of working Days-20**

Introdution of colours Different technique of colouring	Colour main characteristic Value (Tone) Landscape	Develop their colouring ability Knowing knowledge of brush stroke	Landscape
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<b>AUGUST Number of working Days-20</b>			
Applied designing Book cover	Front cover area Back cover area	Knowledge of making book cover. Improve their painting skill.	Drawing of book cover Front cover area. Back cover area.
<b>OCTOBER Number of working Days-17</b>			
Mixed collage Calligraphy writing	Cloth collage Lettering : bold , medium , thin	Knowledge of collage Develop their calligraphy writing	Cloth collage Calligraphy writing
<b>NOVEMBER Number of working Days-20</b>			
Printing and Designing	Rubber block Making a Monoprint Symmetrical prints String pulls	Simply to improve printing skill Develop their designing skill	Rubber block      Making a Monoprint Symmetrical prints String pulls
<b>DECEMBER Number of working Days- 20</b>			
Face study	Potrait	Develop thier sketching ability Improve sketching skills	Drawing of potrait
<b>JANUARY Number of working Days-14</b>			
Facial expression	Smile Laughter Angriness Sorrow	Knowledge of variation of highlights . Draw facial expression.	Drawing of Facial expression

<b><u>SPORTS</u></b>			
<b>APRIL Number of working days-20</b>			
<b>Topic</b>	<b>Sub-Topics</b>	<b>Expected Learning Outcomes Learners will be able to:</b>	<b>Activities</b>
Football	Kicking Dribbling Receiving	Students will learn how to kick the ball with different part of the foot  Students will learn how to receive the oncoming grounded ball	Two touch passing  Dribbling & passing  Receive & turn
<b>MAY Number of Working Days-10</b>			
Football	Goal keeping Trapping Throwing	Students will learn how to grip the ball Students will learn how to trap a Arial ball Students will learn how to throw the ball	Students will learn Under arm throw and gripping Students will Upper arm throw and W gripping

			Students will learn how to do throw in
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**JULY Number of Working Days-20**

Cricket	Batting Bowling Fielding	Students will learn how to grip the bat, body position, judgement of the ball & types of stroke. Students will learn how to grip the ball, line and length of the bowling. Students will learn the catching and throwing skills	Front foot defence with straight bat high catches or flat catches. Running through two rows of tires set up side by side Sprints with parachute behind them to create resistance Set up 6 inch mini-hurdles in row with the athletes running over them in all direction.
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**AUGUST Number of Working Days-20**

SA 1	Physical Fitness test	Student can evaluate their physical fitness	<ul style="list-style-type: none"> <li>• Agility</li> <li>• Speed</li> <li>• Jump</li> <li>• Flexibility</li> </ul>
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**OCTOBER Number of Working Days-17**

Athletics	Running event	Students will learn <ul style="list-style-type: none"> <li>• The types of start</li> <li>• Hand movement</li> <li>• Leg movement</li> <li>• Body position</li> <li>• Acceleration phase</li> </ul>	<ul style="list-style-type: none"> <li>• Starting practice</li> <li>• Hand movement with help of shoe laces</li> <li>• Ladder activity</li> <li>• Acceleration runs</li> </ul>
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**NOVEMBER Number of Working Days-20**

Athletics	Jumping event	Students will learn <ul style="list-style-type: none"> <li>• Types of jumping event</li> <li>• Styles of jump</li> <li>• Approach</li> <li>• Take off</li> <li>• Landing</li> </ul>	<ul style="list-style-type: none"> <li>• Body position during styles</li> <li>• Hand and leg movement practice during approach run</li> <li>• Take off practice with strong foot</li> <li>• Landing practice on both foot</li> </ul>
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**DECEMBER Number of Working Days-20**

Basketball	Dribbling Passing	Students will learn <ul style="list-style-type: none"> <li>• How to dribble</li> </ul>	<ul style="list-style-type: none"> <li>• Dribble till waist height and move</li> </ul>
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	Throwing	<ul style="list-style-type: none"> <li>• How to pass</li> <li>• How to throw</li> </ul>	<ul style="list-style-type: none"> <li>• Chest pass and move</li> <li>• Bounce pass and move</li> <li>• Overhead throw and move</li> </ul>
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**JANUARY**

**Number of Working Days-14**

SA 2	Physical Fitness test	Student can evaluate their physical fitness	<ul style="list-style-type: none"> <li>• Agility</li> <li>• Speed</li> <li>• Jump</li> <li>• Flexibility</li> </ul>
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**DANCE**

**APRIL Number of working days- 20**

<b>Topic</b>	<b>Sub-Topics</b>	<b>Expected Learning Outcomes Learners will be able to:</b>	<b>Activities</b>
Jazz Happy mind dance		Coordination in body with music Trying to relax mind with dance	Jumping Doing energetic Steps Attitude jazz walk Body stretches

**MAY Number of working days- 10**

Bhangra		Energise and understanding rhythm	Foot and hand coordination Circles Working on expressions Understand the rhythm
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**JULY Number of working Days-20**

Hip Hop	Basic hip hop Break dance	Understanding western music and rhythm	Jumps Basic hip-hop
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Music

APRIL/MAY Number of working days-20

	Easy stunts		dance routine Energising body and mind
<b>AUGUST Number of working Days-20</b>			
Patriotic dance		Preparing for any school event	urgent school events
<b>OCTOBER Number of working Days-17</b>			
Koli dance form		Understanding the rhythm and energy as it is a Maharashti form	Basic koli dance routine
<b>NOVEMBER Number of working Days-20</b>			
Basic Chav		Connecting body with rhythm	foot and hand chav ments and postures
<b>DECEMBER Number of working Days- 20</b>			
Basic Contemprory		Working on expressions and emotions	ches, hand and foot alignments
<b>JANUARY Number of working Days-14</b>			
Semi Classical		Understand Teentaal	Basic footwork with Basic hand postures and work on expressions

<b>Topic</b>	<b>Sub-Topics</b>	<b>Expected Learning Outcomes Learners will be able to:</b>	<b>Activities</b>
Introduction of instruments	TaalVadya, SushirVadya, DhanVadya, AvnadVadya, DhanVadya, AvnadVadya	Learn about VadyaVargikaran	Bhajan Achyutam Keshavam with tabla Accompany Bhajan taal bol : dhi na dhi dhi na   ti na ti ti na Prayer Song : Make me a channel -Drums & Congo : BBM BMBM B T T - 1 & 2 & 3 & 4
<b>JULY Number of working days-20</b>			
Song	God's Love Alankar Parichay-1	Know about Alankar	Krishan bhajan : Choti Choti Gaiya Chote Gwal tabla and congo Tabla Congo beat : dha ge na na tie na ka dhi na
<b>AUGUST Number of working days-20</b>			
Song	Patriotic Song	Know about Patriotism	Patriotic Song : Sare Jahan Se Acha Tabla bol : dha titey titey   Ta titey dhin dhin
<b>OCTOBER Number of working days-17</b>			
Song	Make me a channel AlankarParichay 3	Know about hymn and devotional songs	Diwali song : Aai Diwali Re Congo and tabla beat : dhin tak dhin tak Preparation of sports day
<b>NOVEMBER Number of working days-20</b>			
Saraswati Vandana	AlankarParichay 4	Know how to sing Saraswati Vandana	Ma Saraswati Sharde Congo beat : 1 & 2 & 3 & 4
<b>DECEMBER Number of working days-19</b>			
Christmas Carols	Gloria Deck the halls AlankarParichay 5	Why we celebrate Christmas What are Carols?	Hark the Herald beat : dhin tak dhin dak
<b>JANUARY Number of working days-14</b>			
Patriotic Song	AlankarParichay	Know Alankar	Patriotic Song : Aao Bachcho Tumhe Dikhaye Horse beat : dhin tak dhin dak