

## SUBJECT - ENGLISH

MONTH	CHAPTER / LESSON	WRITING SKILLS	LEARNING OUTCOMES	ACTIVITIES / PROJECTS	PRACTICALS (IF APPLICABLE)
APRIL	<b>Literature</b> <b>Prose:</b> Monkey Trouble <b>Poem:</b> Birdie, will you pet? <b>Reader</b> <b>Unit 1:</b> People at Work <b>Grammar</b> Articles	<b>Writing Skills</b> 1. Diary Entry 2. Advertisement	<b>Prose:</b> Know the mischievous nature of monkey <b>Poem:</b> Learn the importance of freedom and uses of literary devices <b>Reader:</b> Learn about the importance of different professions <b>Grammar:</b> Learn the correct uses of articles with different nouns	1. Poem Recitation 2. Make personal Dictionary 3. Advertisement of any product	
MAY	<b>Literature</b> <b>Prose:</b> Monkey Trouble, A Hero <b>Poem:</b> Birdie, will you pet? <b>Reader:</b> People at work, Relationship <b>Practice:</b> Articles, The Sentences, Phrases and Clauses. <b>Unit 2:</b> Relationship <b>Grammar</b> The Sentences The Compound Sentences	<b>Writing Skills</b> 1. Dialogue completion 2. Letter to the Editor (Formal Letter)	<b>Prose:</b> Appreciate Swami, emerging as a hero <b>Reader:</b> Learn the importance of value of every relationship in life <b>Grammar:</b> Learn the structure and types of sentences Learn about the difference between simple and compound sentence	<b>Story Narration:</b> Narrate a story on an adventure you faced	

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<b>JUNE</b>	<b>Literature</b> <b>Poem:</b> I Dream a World  <b>Reader</b> <b>Unit 2:</b> Relationship (Continued)  <b>Grammar</b> Phrases and Clauses	Rearrangement of jumbled words and phrases	<b>Poem:</b> Learn about the kinds of world the poet dreams of  <b>Grammar:</b> Learn the structure of phrases and clauses and its types	Social values of Joint and Nuclear families	
	REVISION				
<b>JULY</b>	<b>Literature</b> <b>Poem:</b> I Dream A World <b>Prose:</b> Fight Manju, Fight.  <b>Reader</b> <b>Unit 3:</b> Attitude  <b>Prac/Grammar</b> The compound sentences Transitive and Intransitive Verbs	Writing Skills 1. Notice Writing 2. Article Writing	<b>Prose:</b> Learn how to overcome hurdles with strong determination  <b>Reader:</b> Learn to appreciate that a positive attitude decides one's attitude in life  <b>Grammar:</b> Learn the difference between Transitive and Intransitive Verb	1. Extempore 2. Greeting cards and Invitation cards	
<b>AUGUST</b>	<b>Literature</b> <b>Prose:</b> Stone Soup in Bohemia  <b>Reader</b> <b>Unit 3:</b> Attitude (Continued)  <b>Grammar</b> Passive Voice Unseen Poem and Passage (I, II and III)	<b>Writing Skills</b> 1. Report Writing	<b>Prose:</b> Learn how sharp wits save one's life in difficult situation  <b>Grammar:</b> Learn uses of Passive Voice in writing  Learn the concept of understanding the passage	1. Group discussion 2. Interview with a prominent personality or peer group	
<b>SEPTEMBER</b>	<b>REVISION + HALF YEARLY EXAMINATION</b>				

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OCTOBER	<b>Literature</b> <b>Prose:</b> A Stormy Adventure  <b>Reader</b> <b>Unit 4:</b> Achievers  <b>Grammar</b> Modals	<b>Writing Skills</b> 1. Editing:- Omission/ correction of errors, 2. Post card writing	<b>Prose:</b> Learn real life experiences which can be educative  <b>Reader:</b> Learn about the great achievers who have achieved their goals in spite of adversities  <b>Grammar:</b> Learn how modals modify sentences to express different attitude	Debate	
NOVEMBER	<b>Literature</b> <b>Poem:</b> A Stormy Adventure, The Human Robot, The Spider and the Fly  <b>Reader</b> <b>Unit 4:</b> Achievers, Achievers (Continued)  <b>Grammar</b> Modals, Reported Speech	<b>Writing Skills</b> 1. Poem comprehension 2. Message writing	<b>Poem:</b> Learn how flattery makes one vulnerable  Understand the use of poetic devices  <b>Grammar:</b> Learn to use indirect speech correctly	Spelling contest	

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DECEMBER	<b>Literature</b> <b>Prose:</b> The Human Robot <b>Poem:</b> Friends and Flatterers  <b>Reader</b> <b>Unit 5:</b> The Future World  <b>Grammar</b> Future Time Reference	<b>Writing Skills</b> 1. e-mail writing 2. Informal Letter	<b>Prose:</b> Appreciate science fiction  <b>Poem:</b> Learn to differentiate between a friend and a flatterer  <b>Reader:</b> Learn about innovations and advancement in technology in the coming years  <b>Grammar:</b> Recognise the tense used in different sentences	Role play	
	<b>REVISION</b>				
JANUARY	<b>Literature</b> <b>Play:</b> The spider and the fly, Chocolates in Your Dreams Too  <b>Reader</b> <b>Unit 6:</b> The future World Unity in Diversity  <b>Grammar</b> Future time reference, Perfect Progressive Tense Linkers Unseen Passage (IV, V, VI)	<b>Writing Skills</b> 1. Speech Writing	<b>Play:</b> Learn the importance of healthy lifestyle  <b>Reader:</b> Learn to respect diversity  <b>Grammar:</b> Recognise the progressive tense used in different sentences  Learn to join words, sentences and clauses by using different linkers	1. Dialogue and Speech delivery 2. Collect information about various people of different states of India with pictures and write a few lines about them.	
FEBRUARY	<b>ANNUAL SYLLABUS Portion- WHOLE SYLLABUS</b> Or <b>Term-I – (a) Articles (b) Transitive and Intransitive Verbs (c) Notice Writing (d) Dialogue completion</b> <b>Term II- Portion from October to January</b>				

## विषय - हिंदी

( पुस्तक - ज्ञान सागर और अभ्यास सागर )

MONTH	CHAPTER/ LESSON	TOPICS/ CONTENTS	LEARNING OUTCOMES	ACTIVITIES / PROJECTS	PRACTICALS ( IF APPLICABLE )
APRIL	पाठ-१ बारहमासा ( कविता ) पाठ-२ नाटक में नाटक पाठ-३ निर्मला, साँप और सयाल	अभ्यास-संयुक्त वर्णन, उप्यारण अभ्यास-अनुस्वार, अनु- नासिक अनुच्छेद लेखन- विद्यार्थी एवं अनुशासन।	हिंदी संवत् के अनुसार महीनों के नाम, मौसम, त्योहार, ऋतु विशेषता एवं सौन्दर्यानुभूति। वाचन कौशल, श्रवण कौशल एवं शब्द चयन का विकास।	महीनों का रूप धारण कर सस्वर कविता की प्रस्तुति। संवाद का अभिनय के साथ वाचन।	
MAY	पाठ-४ बातूनी पाठ-५ राजू का सपना	अभ्यास-संज्ञा भेद अभ्यास-उपसर्ग, प्रत्यय। पत्र लेखन-परीक्षा में प्रथम आने पर मित्र को बधाई पत्र।	त्वरित बुद्धि एवं समस्या समाधान। वाचन कौशल, बातचीत की सार्वकता का महत्व। पर्यावरण संरक्षण के प्रति संवेदनशीलता, जागरूकता की भावना।	कहानी लेखन। पर्यावरण से संबंधित कविताओं का संकलन।	
JUNE	पाठ-६ समय	अभ्यास-विसर्ग-चिह्न अनुच्छेद लेखन : समय का महत्व	समय का सदुपयोग प्रवृत्ति का विकास		
पठित पाठों की पुनरावृत्ति					
JULY	पाठ-७ स्कूल की छुट्टियाँ। पाठ-८ एवरेस्ट की चुनौती पाठ-९ सवाल का जवाब	अभ्यास-सर्वनाम भेद। अभ्यास-विशेषण भेद अभ्यास-क्रिया भेद	स्वातंत्र्य-स्वच्छन्दता के अंतर को समझकर अनुशासन प्रवृत्ति का विकास। परीक्षा के महत्व को आत्मसात करना। संसार के उच्च पर्वत शिखरों की जानकारी।	विशिष्ट पर्वतारोहियों के चित्र एवं उनके कार्यों पर प्रकाश डालते हुए परियोजना कार्य सामाजिक परिवेश एवं सहयोग की भावना का विकास।	
AUGUST SEPTEMBER	पाठ-१० झंडा ऊँचा रहे हमारा पाठ-११ उस रात की बात पाठ १२ दोहे	अभ्यास-क्रिया विशेषण के भेद अभ्यास-विविध शब्द प्रयोग, औपचारिक पत्र, संवाद लेखन	राष्ट्रीय ध्वज के प्रति आदर की भावना। अवसर के अनुकूल प्रतिक्रिया हेतु दृष्टिकोण सु- र-ताल एवं लयबद्धता के साथ दोहों के मूल भाव को समझते हुए उसे जीवन में आत्मसात करना।		
पठित पाठों की पुनरावृत्ति + HALF YEARLY EXAMINATION SYLLABUS -( ज्ञान सागर + अभ्यास सागर ) पाठ संख्या-1,2,3,4,6,7,8,9,11 और 12					



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OCTOBER	पाठ-१३ साहस को सलाम पाठ-१४ एस. रामानुजन पाठ-१५ अन्नदाता कृषक	अभ्यास- काल एवं भेद अभ्यास- छाया लेखन अनुच्छेद लेखन : जल है तो कल है	लक्ष्य के प्रति समर्पण की भावना का विकास। मेहनत व लगन की भावना का विकास।		
NOVEMBER	पाठ-१६ देशभक्त पुरु पाठ-१७ काकी पाठ-१८ बाललीला और कुंडलियाँ	अभ्यास-शब्द-रुड़, यौगिक योगरूढ़ अभ्यास-संयुक्त क्रिया एवं रंजक क्रिया अभ्यास-तत्सम, तद्भव, देशज, विदेशज संवाद लेखन	देश के लिए कर्मशीलता की भावना का विकास। ऐतिहासिक नाटक के माध्यम से दृढ़ निश्चय का विकास। मातृप्रेम की भावना का विकास।	खद-विवाद : देश के विकास में भारतीय किसानों का योगदान।	
DECEMBER	पाठ-१९ गणेशोत्सव	अभ्यास-अलंकार अभ्यास-सूचना लेखन अनौपचारिक पत्र : गणेशोत्सव का वर्णन करते हुए मौसी की पत्र।	बच्चों की स्वाभाविक चंचलता एवं भोलापन का परिचय। त्योहारों के प्रति समभाव और उत्साह का विकास।	विभिन्न धर्मों एवं राज्यों से संबंधित त्योहारों की सूची बनाइए।	
JANUARY	पाठ-२० कर्मवीर	अभ्यास- क्लृप्त परिभाषा व भेद सूचना लेखन	कर्मशीलता की भावना का विकास।		
FEBRUARY	सम्पूर्ण पठित पाठों की पुनरावृत्ति				
<p align="center"><b>ANNUAL SYLLABUS</b> (ज्ञान सागर + अभ्यास सागर) पाठ्य-पुस्तक में दिए गए तारांकित पाठों को छोड़कर सभी पठित पाठ।  Or (ज्ञान सागर + अभ्यास सागर) Term I-Ch 1,4,8,12 Term II-Ch 13,15,16,17,18,19,20</p>					

**Subject - MATHS**

MONTH	CHAPTER / LESSON	TOPICS/CONTENTS	LEARNING OUTCOMES	ACTIVITIES / PROJECTS	PRACTICALS (IF APPLICABLE)
APRIL	Ch1- Rational Numbers	Rational Numbers, Properties of Rational Numbers, Standard form of Rational number, Absolute Value of Rational Numbers, Representation of Rational Numbers on a Number Line, Comparing Rational Numbers, Brain Teasers, Value based questions, Hots.	After learning the content, the learner will be able to: Recall various types of numbers viz. natural numbers, whole numbers, fractions, integers • Define a Rational number. • Difference between rational numbers and fractions. • Write Rational Number in the standard form. • Find equivalent rational numbers. Find absolute value of a rational number. Represent rational number on a number line. Compare rational numbers.	Make a Number line and show the given rational numbers	
MAY	Ch2- Operations on Rational Numbers	Properties of addition of rational number, properties of Subtraction of rational number • Multiplication of Rational numbers and Properties of multiplication of rational number. • Reciprocal of a rational numbers Division of rational number and properties of division of rational number. Rational numbers between two rational numbers. Value based questions, Brain teaser, Hots	Students will be able to Apply basic operations on two or more rational numbers. Relate and verify the Properties of (closure, associative, existence of identity, existence of inverse, commutative and distributive) of rational numbers under all algebraic operations (+, -, $\times$ , $\div$ ) Solve problems based on rational numbers Write the reciprocal of a number. Find rational numbers between two given rational numbers After learning the content the learner will be able to	•Project on operation on rational numbers	

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MAY	Ch3- Rational Numbers as Decimals	Conversion of Rational Numbers into decimals by long division method, Terminating and Non Terminating decimal, Conversion of Terminating decimals into rational numbers, Brain Teasers, Value Based questions, Hots, Enrichment question.	<ul style="list-style-type: none"> <li>•To represent rational numbers into decimal form</li> <li>• Convert of decimal number into rational numbers</li> <li>• Understand the concept of Terminating and Non-terminating decimals</li> <li>• Understand the concept of Terminating and Non-terminating Decimal with the help of long division method and without actual division method</li> <li>•To perform the four basic operation on decimals</li> <li>•To simplify the numerical expression containing Decimal</li> </ul>	Terminating and non terminating decimal chart with definition	
JUNE	Ch 13- Symmetry	Symmetry, Lines of symmetry (i) English alphabets (Capital) (ii) Line segment, Ray, Line, Angles (iii) Triangle, (iv) Different type of quadrilateral, Brain Teasers	After learning the content the learner will be able to know the concept of symmetry using different methods. They will be able to find the lines of symmetry in different geometric figures	To draw and prepare the models of symmetric Triangle	



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JULY	Ch4- Exponents and Powers	Exponents of Rational Numbers, Reciprocals with positive integral. Exponents, Laws of Exponents in Expressing Large and small Numbers, Brain Teasers. Hots, Value based questions	After learning the content the learners will be able to •To understand and use the laws of exponents. •To simplify expression that have positive negative or zero exponents with variable or numeric bases •To express small and large numbers in standard form	Charts on Laws of Exponents.	
	Ch -8 Triangle and its Properties	Isosceles Triangles and its properties, Relation between Exterior angle and interior Opposite angles, Angle sum property of a triangle, Triangle inequality, Pythagoras theorem and its converse. Pythagorean triplets, Medians and centroid of a triangle, Altitude and orthocenter of a triangle. Perpendicular bisectors of a sides of a triangle, Angle bisectors of triangle, Value Based questions	After learning the content, the learner will be able to understand the various properties of triangle such as angle sum property, Isosceles triangle property and exterior angle property	In a Right angled triangle show that $P^2 + B^2 = H^2$ To Measure sides and angles of a triangles and write its Name.	
AUGUST	Ch 9- Congruent Triangles	Congruent figures, Conditions for congruence of triangles SSS congruence condition SAS congruence condition, ASA congruence condition RHS congruency condition, value based questions, Brain Teasers, Hots	After learning the content the learners will be able to understand the concept of congruence of two Triangles and other such figures which lie on a plane	Draw and make any five congruent Triangles using paper cut	

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SEPTEMBER	REVISION + HALF YEARLY EXAMINATION SYLLABUS - Ch -1,2,3,4,8,9 & 13				
OCTOBER	Ch 5 - Application of Percentage	Simple Application of percentage, Profit and Loss, Simple Interest, Profit Percent, Loss Percent, Brain Teasers, Value Based Questions, Hots	After learning the content the learner will be able to •To have basic understanding of profit and loss in a situation •To find SP and CP of article if profit percent or loss percent are given. •To develop problem solving skills. To apply the formula for calculating interest	Group discussion on application of percentage in our everyday life  Micro Teaching	
	Ch-10 Construction of Triangles	Construction of triangle SSS Construction ,SAS construction ASA Construction ,RHS Construction, Brain Teasers, Value based Questions, Hots	After learning the content the learner will be able to •construct a triangle when three sides are given •construct a triangle with two sides and the included angle given •construct a triangle when two angles and the included side are given •construction of a right angle triangle with the hypotenuse and one side given •construction of perpendicular bisector of one of the side of a triangle •construction of angle bisector of one of the angle of a triangle		

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NOVEMBER	Ch 11- Perimeter and Area	Area of rectangular paths, paths crossing Each Other, Area of parallelogram, Area of a triangle, circumference of circle, Area of circle, Brain Teasers, Value based questions, hots	After learning the content the learner will be able to <ul style="list-style-type: none"> <li>• Apply the knowledge of area of rectangle and square in finding the area of path</li> <li>• To calculate the area of roots parallel to the sides of rectangle</li> <li>• Define parallelogram and Rhombus derive the formula for area of parallelogram</li> <li>• Derive the formula for area of triangle apply the formula in various situations</li> <li>• Develop the understanding of the concept of circumference and area of circle.</li> <li>• Derive the formula for area and circumference of the circle.</li> <li>• Analyse the situation where to find area or circumference of a circle</li> <li>• Apply the formula in different problems</li> </ul>	To find Perimeter and Area of Different Shapes	
DECEMBER	Ch -6 Algebraic Expressions	Multiplication of monomials, binomials, trinomials <ul style="list-style-type: none"> <li>• Factors of algebraic expression</li> <li>• Factorization by regrouping the terms factorization by taking out a common factors</li> <li>factorization of algebraic expression when a binomials is a common factor, Brain Teasers, value based questions, hots</li> </ul>	After learning the content the learner will be able to <ul style="list-style-type: none"> <li>• Recall the basic terms related to algebraic expressions example constants, variables like and unlike terms etc</li> <li>• Multiply two or more monomials and verify the product</li> <li>• multiply a monomial with a binomial and verify the product</li> <li>• multiply two or more binomials and verify the product</li> <li>• multiply a binomial with a trinomial</li> </ul>	Defining and Distinguishing Equation and Algebraic Expression with Example	

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DECEMBER	Ch 7- Linear Equations in one Variable	Introduction, Solution of linear equation in one variable, Application of linear equation word problems, Brain Teasers , value based questions	<ul style="list-style-type: none"> <li>•evaluate or verify the products of the algebraic expression at the given value of the variables</li> <li>find the HCF of given monomials</li> <li>• factorise the algebraic expressions by finding out a common factor and regrouping the terms</li> </ul> <p>In this chapter children must be able to</p> <ul style="list-style-type: none"> <li>•Understand the configuration of linear equation</li> <li>•What is a linear Equation?</li> <li>•Know if a value is a solution of linear equation or not?</li> <li>•To find the solution of a problem involving three steps</li> <li>a) Formation of a equation</li> <li>b) Solving an equation</li> <li>Interpreting the solution</li> </ul>		
	Ch 12 Data Handling	Data, range Arithmetic mean, Median Mode, Bar graphs and drawing double bar graphs, Brain Teasers ,Value based questions and hots	<p>After learning the content the learner will be able to</p> <p>Handle the data ,organise the data to make it easy to understand and interpret</p> <ul style="list-style-type: none"> <li>• How to make data meaningful for further analysis ?</li> <li>•How to make Interpretations from data analysis ?</li> </ul> <p>Have a crisp and precise view of objective under consideration</p>	To collect Data and Find Mean, Median , Mode from Real Life Events	



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JANUARY	Ch- 14 Visualising Solids	Faces, Edges and Vertices of a Solid, Nets for 3-D Shapes, Sketching Solids on a Plane, Oblique sketch, Isometric sketch, Brain Teasers, Hots	After learning the content the learner will be able to • To visualise solid shapes and draw the solid shapes on a sheet of paper to visualise 2-D, 3-D shapes. • To draw a solid on sheet of paper. • To unfold a solid shape on a sheet of paper in the form of a net. • To obtain a solid from a net by paper folding. • To use isometric sheets for the construction of cubes & cuboids	Make a model of any three 3-D objects	
FEBRUARY	REVISION				
ANNUAL SYLLABUS Ch -1, 2, 4,5,6,7,8,9,10,11,12,& 14 Or Term I- Ch 1,2,4,8,9 Term II –Ch 5,6,7,10,11,12,14					

## Subject - SCIENCE

MONTH	CHAPTER /LESSON	TOPICS/CONTENTS	LEARNING OUTCOMES	ACTIVITIES / PROJECTS	PRACTICALS (IF APPLICABLE)
APRIL	PHYSICS  Ch-5 Heat	Heat as Energy, Heat and Temperature, Effects of Heat-Physical changes, Chemical changes, Measurement of Temperature, The thermometer, Reading a thermometer, Comparison of Fahrenheit and Celsius scale readings, Clinical Thermometer, Laboratory thermometer, Digital thermometer.	1. Learn how temperature is measured. 2. Learn how to read thermometer. 3. Understand the three different ways in which heat flows from one object to another.	Draw land and sea breeze. Make a table of the body temperature of your family members using Thermometer. Model of Thermometer.	
APRIL	CHEMISTRY Ch -3 Chemical substances and processes	Elements, compound and mixture. Ions- Cation&anions. Chemical Formula Chemical Reaction	Understand the chemical compounds and its use in day to day life, students must know the concept of chemical formula	*Make a chart of elements and their symbol from atomic number 1 to 30. *Prepare a list of physical and chemical changes around us *Chart on positive and negative ions	Physical and chemical changes  Chemical reactions

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APRIL	BIOLOGY Ch-1 Nutrition in living organism plants.	Autotrophic and heterotrophic nutrition	1. Knowledge about modes of Nutrition in plants. 2. Explain the process of photosynthesis in plants. 3. Grow and observe the growth of bread mould (Fungus) and its effects.	Develop bread mould on a slice of bread and observe carefully	Make a flow chart of nutrition in plants.
MAY	PHYSICS Ch-5 Heat (continued)	Transfer of Heat- Conduction, Convection and Radiation.	4. Differentiate between clinical and laboratory thermometer	On a chart paper make a table for the temperature of your family using thermometer. To show conduction, convection and radiation.	
MAY	CHEMISTRY 3. Chemical substances and processes (continued)	Chemical equation & balancing of chemical equation.	Students must know how to write chemical equation	Write examples of 10 chemical equations.	

MAY	BIOLOGY 2. Nutrition in living organisms animals and Human being.	Nutrition in humans	1. Identify types of teeth and its importance in digestion. 2. Knowledge about digestive system in Ruminants, human beings and Amoeba (unicellular organism) 3. Role of enzymes in breaking down of proteins, fats and carbohydrates	Make a model of human respiratory system.  Perform an activity-in mouth to show starch converts in to sugar.	Make a flow chart on digestion in human beings.
JUNE	PHYSICS Ch-5 Heat (continued)	Global wind patterns, Land and Sea Breezes.			
JUNE	CHEMISTRY 3. Chemical substances and processes (continued)	Types of chemical reactions	Students must know types of chemical reactions	Write examples of 10 chemical equations which shows different types of chemical reactions.	



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JUNE	BIOLOGY 13. Weather climate and adaptation, of Animals	The weather elements, Comparing climate Adaptation in Polar region, Tropical Rain forest	1. Students will be able to know difference between climate and weather. 2. Compare climates of different places 3. Student must know how do animals adapt in different climates 4. Knowledge about climatic zone of India	Make a collage on different types of trees found in India or Locate different types of climatic zones on Map of India.	Forest conservation poster
JULY	PT-II SYLLABUS PHY:- Ch-12 Light CHEM:- Ch-16 Water BIO:- Ch-13 Weather, Climate and adaptation of animals				
JULY	PHYSICS Ch-12 Light	Introduction, Reflection of light, Laws of reflection, Image formation, Multiple images, Spherical Mirrors, Terms Used in Connection with Spherical Mirrors, Images formed by a concave and a convex mirror, Practical Uses of Mirrors	1. Understand importance of the natural energy in human life. 2. The students should be able to explain what an image is and describe how it is formed as a result of reflected light. 3. Students must know how to apply laws of reflection for plane mirror and Spherical mirror.	To prove light travels in straight lines. Model of periscope. Image formed by a plane mirror. Show lateral inversion. Make a Kaleidoscope.	

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JULY	CHEMISTRY 16.Water	Sources, Water table, rainwater harvesting, water management	Students must know the importance of water and their conservation.	Writing slogans and preparing posters on water conservation.	
JULY	BIOLOGY 7.Respiration of organism	Types of respiration Respiration in plants	1. Learning different respiratory organs of different organisms 2. Must know the difference between anaerobic and aerobic respiration	Make a model of human respiratory system	Make a flow chart of different types of respiration.
AUGUST	PHYSICS Ch-11 Electric charges at rest	Introduction, Uncharged and charged objects, Conductors and Insulators, Kinds of charges in nature, Charges are produced in pairs, Earthing, Methods of charging up, Charges in nature,	1.Different methods of charging objects. 2.Knowledge and importance of lightning and lightning conductors. 3.Students must know the uses of electro-scope. 4.Comparison of speed of light and sound in nature.	To prove a charged body attracts tiny bits of paper. Model of Gold Leaf Electro-scope.	
AUGUST	CHEMISTRY 10.Soil	Soil, soil formation, soil profile, composition, soil pollution soil erosion and resource	Students must know different types of soil, texture and its composition.	Chart on soil profile.	

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AUGUST	BIOLOGY 7. Respiration in organisms. (continued)	Respiration in animals	1. Students will be able to know the production of energy from food and its uses.	Make a list of different organisms and their respiratory organs	Activity Anaerobic Respiration (Fermentation)
SEPTEMBER	REVISION + HALF YEARLY EXAMINATION PHY:- CH-5,11&12 CHEM:- CH-3,10&16 BIO:- CH-1,2,7&13				
OCTOBER	PHYSICS Ch-6 Motion and Time	Motion, Motion along a straight line, Speed, Uniform and Non-uniform motion, Time	To develop concepts of speed, distance and time. Students must know different types of motion and their use in daily life. How to measure time by pendulum and different devices.	Model of sundial and its function. Make a chart on comparison of speed. Graphs related to motion and time . Practice -- Distance time graph.	
OCTOBER	CHEMISTRY 4. Acid, Base and Salt	organic acids and mineral acids	Recognize different types of acids	Make a list of organic acids, sources and their uses.	Test of acids using indicators

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OCTOBER	BIOLOGY 8. Transportation in plants and animals	Transportation of water and minerals in plants. Excretion and transportation in animals	1. Knowledge about transportation in unicellular and multi cellular organisms. 2. conduction of water, minerals and food in plants. 3. students will be able to know about types of blood, and its composition and functions. 4. develop knowledge to measure pulse rate and heart beat and blood pressure	Draw the diagram of heart and Excretory system	Show transpiration in plants conduction of water mineral in plants using Balsam plants.
NOVEMBER	PHYSICS Ch-6 Motion and Time (continued)	Measuring speed, Some simple Calculations, Graphs, Using graphs to describe motion.			
NOVEMBER	CHEMISTRY 4. Acid, base and salt (continued)	Alkalies, indicators and formation of salts	Recognize different types of alkalis  Students must know the ideas about indicators, how to prepare and their uses in daily life	Make a list of (i) strong acid and weak acid (ii) strong base and weak base along with Chemical formula. Make a list of natural and synthetic indicators	Test of bases using indicators.



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**Syllabus - Class - VII**


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NOVEMBER	BIOLOGY 9. Reproduction in plants	Types of reproduction, pollination	1. comparison of Asexual and sexual reproduction. 2. Types of reproduction	Grow plants vegetatively from potato, ginger, onion	Prepare chart on different types of reproduction in plants.
DECEMBER	PHYSICS CH-6 Motion and time (continued)	Distance -time graphs			
DECEMBER	CHEMISTRY 4. Acid, base and salt (continued)	Types of salts	Recognize different types of salts	list salts used in daily life. Write their formula.	Record the change of colours in acidic, basic and neutral medium.
DECEMBER	BIOLOGY 9. Reproduction in plants (continued)	Types of reproduction pollination	3. Able to know advantages of asexual reproduction.		
DECEMBER	PHYSICS Ch-17 Electric current and its effect	Introduction, Heating effect of electric current, Advantages and Disadvantages of heating effect of current	1. Explain heating, chemical and magnetic effect.		

**Syllabus - Class - VII**

DECEMBER	CHEMISTRY 14. Fabric from fibre	Wool, Silk, different steps of preparing Silk and wool.	To understand the concept of fibres, fabric and yarn. Sources of animal fibre. Life cycle of silkworm, production of silk and its use in human life.	Paste different kinds of fibres obtained from plants and animals sources.  Chart on life cycle of Silkworm.	
DECEMBER	BIOLOGY 9. Reproduction in plants (Continued)	Dispersal of seed	1. Role of different flowers, seeds and fruits production and its dispersal.  2. Importance of seeds dispersal	Make a model of a flower	Life cycle of a flowering plant
JANUARY	PHYSICS Ch-17 Electric current and its effect (continued)	Electric fuses, Magnetic effect of current, Electromagnets, Practical uses of Electromagnets, Electric Bell.	2. Introduce children to fundamentals of electric circuits and make capable of trouble shooting simple electric circuit.	To prove a charged body attracts tiny bits of paper. Make a model of an electric Bell	
JANUARY	CHEMISTRY 14. Fabric from fibre (Continued.)	Uses of silk and wool in human life			

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JANUARY	BIOLOGY 15. Forest	Components of forest. Layer of forest	1.Knowl- edge about forest and their types at different places of India 2.Able to know the role of forest in maintain- ing food chain. 3. Impor- tance of layers of forest and its conserva- tion	Locate dif- ferent types of climatic zones on Map of India.	Prepare- playcard on Impor- tance of forest
FEBRUARY	REVISION				
ANNUAL SYLLABUS Term I – Ch 2,3,7,11,12 Term II – Ch 4,6,8,9,14,15,17					

**SOCIAL SCIENCE**

MONTH	CHAPTER / LESSON	TOPICS/ CONTENTS	LEARNING OUTCOMES	ACTIVITIES / PROJECTS	PRACTICALS (IF APPLICABLE)
APRIL	Ch-1 components of Environment Ch-9 Medieval Period Ch-10:- The Rise of small Kingdoms in North India Ch- 18 Democracy and Equality	Four spheres of Environment Lithosphere, Atmosphere, Hydrosphere, Biosphere Medieval Period in Indian and European History, sources of information The Rashtrakutas, Cholas, Pratiharas, Rajputs Administration The constitution of India, Universal Adult Franchise, Political Parties, Right to Equality	Exposure of Environment in detail Precise learning of location and details about Marco polo Getting well acquainted with the framework of constitution	Hold a class discussion on good and bad environment On a political map of world identify and locate the countries visited by Marco polo Write the preamble on a chart paper	
MAY	Ch-2 The Earth and the changes on it Ch-11 The Rise of small Kingdoms in South India	External Process, Agents of Denudation, Soil, distribution of Soil, Major soil types Cholas, Cheras, Pandyas, Administration, Economics, Society, Education, Art and Architecture.	Deep knowledge of the history of south India	Quiz on the administration of cheras, Pandyas and cholas	
JUNE	Ch-3 The surface and the interior of the earth	Earth's Surfaces, the interior of the Earth, Layers of the Earth, Rock materials inside the earth	Students will come to know about the hidden truth of the earth	Group project:- Model of Volcanic Eruption" or model on interior of earth	



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**Syllabus - Class - VII**


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JULY	Ch-4 Air Around us Ch-12 Turkish Invasions in North India Ch-19 Our State Governments	Structure of the atmosphere, Air and its compo- sition, pollutants in the air, Atmospheric Temperature and Pressure Political conditions before Turkish inva- sions, Attack of Moham- mad Ghazni and Ghori The State Legisla- tors, Function, The Government, The Chief Minister and His council of Ministers.	Extensive learning of Air and its compo- sition Students will know about the underlying conditions and reasons behind Turkish Inva- sion A clear concept on the func- tioning of Indian federal- ism	Diagram of Layers of At- mosphere Group discussion: Indian politi- cal framework before Turk- ish Invasion. Prepare a ppt on the life of famous Rajput king Prithviraj Chauhan Role play:- unicameral and bicameral legislature. Draw a flow chart on dif- ferent levels of Government.	
AUGUST	Ch- 13 Delhi Sultanate Ch-20 Media- the Mainstay of Democracy	The Slave Dynasty, The khaljis, Tughlaq Dynasty, Gover- nance during the Sultanate Period Interdependence of Technology and Media, Role of Money in Media, Media and De- mocracy, Right to Information Act, 2005	Students will come to know about different dynasties of Delhi Sultanate and their ruling over India Students will understand properly the importance of Media in a democratic set up of govern- ment	Quiz on Governance during Sultan- ate Period. Group Discus- sion on the topic: Governance of Delhi Sultanate and Democrat- ic Government Organize a Talk show or TED talks on Media and its role in democratic set up	

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**Syllabus - Class - VII**


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SEPTEMBER	REVISION + HALF YEARLY EXAMINATION Ch 1,2,3,4,9,10,11,12,13,18,19 and 20				
OCTOBER	Ch-5 Water Sur- rounding the Earth  Ch-14 Regional Powers	The process of water cycle, Various movements of ocean water, im- portance of ocean to Human Beings  Vijaynagar Empire, BahamaniKing- dom, Ahoms Mewar, Marwar, Kashmir.	Importance of water to flora and fauna will be well explained and understood by the students.  Students will come to know about the regions of that period and their rulers	Live model of ocean current  Collage of the kingdoms of that period	
NOVEMBER	Ch-6 Life on the Earth Ch-15 Mughal empire (till Akbar) Ch-21 Advertis- ing & Democ- racy	The plant kingdom, tropical hardwood forests, Grasslands, The Animal King- dom Babur, Huma- yun, Akbar their emergence to the throne and back- ground Definition of social and public service advertising, Adver- tising and Democ- racy consumerism	Students will know about the survival of the species of plants and ani- mals in details. Plotting be- hind Mughals Arrival/ inva- sion Advertising as a great tool of democracy and rights of consumers and their protective rights	Prepare a ppt on one tropical hardwood forests and grasslands of the world. Collage on Flora and Fauna Prepare a picto- chart on the invasion of Babur Make an ad- vertisement to create aware- ness about literacy or health	

**Syllabus - Class - VII**

DECEMBER	Ch-7 Human environment	Settlement, Transport and communication, factors responsible for permanent settlement.	Students will learn precisely about the difference between man made settlement and natural settlement with reference to environment	Create a pie-chart contrasting human environment and natural environment	
	Ch-15 cont. Mughal Empire (till Aurangzeb and the governance)	Jahangir and Aurangzeb, downfall of Mughal empire, Governance	Students will learn about the underlying reasons of the weakening of the Mughal Empire	Prepare a two page leaflet on the existing reasons of decline of Mughal Empire with suitable pictures. Life history of Mughal Rulers in chronological order.	
	Ch-22 Unpacking Gender	Role of boys and girls, Gender Inequality, Education and awareness need of Gender Equality	Students will understand the need of gender equality in each and every walk of life	Organize a skit depicting the reverse role of Boys and girls	
JANUARY	Ch-16 Emergence of Independent states	Bengal, Awadh, Hyderabad, sikhs, Marathas, Rajputs, Mysore	Students will understand clearly the reason behind the emergence of Independent states	Make a grid game of map of the independent states of Middle century	
	Ch-23 Markets Around us	Definition Types of Markets, Markets and Democracy	Students will know about the markets and their reference in our day to day life	Prepare a flow chart of different types of markets around us with their utility	

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FEBRUARY	Ch-8 Land and the people	Life in Desert: Sahara, The Hot Desert, Ladakh, The cold Desert, life in temperate grasslands, life in tropical and sub tropical regions	Learning on the ways of living on different landforms by different people of the earth	Draw the hot and cold desert using paintbrush of computer and stick the same in your notebook	
	Ch-17 Major Religions	Islam, Sikhism, bhakti movement, sufism	Students will learn about the emergence of different faith and belief and they will also learn about the beauty of diversity of India.	Use scrap paper and make different religious symbols	
FEBRUARY	REVISION				
Term I- Ch -1 , 3 , 13 , 19					
Term II- Ch 5,6,7,8,14,15,16,17,21,22,23					



## SANSKRIT

महीना	पाठ का नाम	व्याकरण कार्यम्	शिक्षण प्रतिफल	क्रिया कलाप परियोजना कार्यम्	
अप्रैल	सुरभि: पाठ-१ बुद्धि: एव अस्माकम् बलम्	शब्द रूप-देव, लता, साधु धातु रूप-पठ्, भू अस्मद्। पाँचो लकारों में	बुद्धि का प्रेयाग कर कठिन परिस्थितियों का सामना करने की क्षमता विकसित करना।	१. बुद्धि:एव उत्तमा इस विषय पर पुस्तक से भिन्न अन्य कथा लिखना। २. चित्र सहित पाठ का हिन्दी में अनु- वाद।	
मई	पाठ-२ अभ्यास: एव परमो गुरु: पठित गद्यांश	प्रत्यय- क्त्वा-ल्यप्, तव्यत्, अनीयर् तुमुन्। अव्यय एवं उपसर्ग, स्वर सन्धि- परिभाषा एवं उदाहरण (दीर्घ एवं गुण संधि)	बार-बार अभ्यास द्वारा शुद्ध लिखने की क्षमता एवं स्मरण शक्ति तीव्र करना	पाठ में आए व्याकरण कार्य को करना। (प्रत्यय, उपसर्ग अव्यय आदि चुनकर लिखना)	
जून	पाठ-३ उपकारका: वृक्षा:	शब्दरूप-अस्मद्, युष्मद्, सर्व (तीनों लिङ्गों में)	पर्यावरण के महत्व को समझेंगे एवं वृक्षों की सुरक्षा में ही हमारी रक्षा है, विषय में विचारशील होंगे।	वृक्ष का चित्र बनाकर संस्कृत में वाक्य लिखना। वृक्ष से संबंधित सूक्ति संकलन।	
जुलाई	पाठ-४ आगच्छ भोजनं कुर्याम	कारक-प्रथमा से पंचमी विभक्ति। रेखांकित शब्दों में विभक्ति और कारण। शब्द रूप- तत्, एतत्, और् किम् (तीनों लिंगों में) अवकाश पत्र, निर्माण पत्र।	पौष्टिक भोजन के महत्व को समझेंगे तथा फास्ट फूड से दूर रहेंगे।	किस भोजन से कौन-कौन से तत्व (कैल्शियम, आयरन आदि) प्राप्त होते हैं चार्ट द्वारा परिदर्शित करें।	
अगस्त	पाठ-५ सुवचनानि पठित पद्यांश	अनुच्छेद लेखन- १. मम प्रियः शिक्षकः २. अस्माकं देशः ३. पर्वतराजः हिमालयः, चित्रवर्णनम् व्याकरण :- १. अपठित् गद्यांश २. अनुवाद कार्यम्	श्लोकों का शुद्धोच्चारण एवं अर्थों का ज्ञान कराना।	सत्संगति: इस विषय पर श्लोकों का संकलन एवं कक्षा में संस्वर पाठ	



अक्टूबर	पाठ-६ यस्य बुद्धिः तस्य बलम्	शब्द रूप-कवि, मति, वारि, नदी विशेष्य-विशेषणम् संधि-बुद्धि, यप् अयादि धातु रूप नम्, कृ स्था, गम् (पाँचों लकारों में)	बुद्धि के प्रयोग द्वारा कठिन परिस्थितियों से बाहर निकलने की कला का ज्ञान करवाना।	विशेषण-विशेष्य युक्त पदों का सरल रूप में संवाद	
नवम्बर	पाठ-७ बुद्धिः एव उत्तमा	प्रत्ययाः-क्त्वा, ल्यप्, तुमुन् क्त, क्तवतु शतृ, शानच् विभक्ति और कारक (प्रथमा से पंचमी विभक्ति)	बुद्धि का प्रयोग कर विनयी बनेंगे तथा ठगे जाने से बचेंगे।	बुद्धि एव उत्तमा कथा का कक्षा में नाटक के रूप में मंचन।	
दिसम्बर	पाठ-८ अविवेकः परमापदा पदम् अपठित गद्यांश	धातु रूप-सेव्, लभ् अनुच्छेद लेखनम् १. स्वामी दयानन्दः २. परोपकारकाः वृक्षाः ३. गंगा नदी	बुद्धि का प्रयोग नहीं करने पर विपत्ति आ सकती है, इस बात से अवगत होंगे।	बुद्धिः पर आधारित श्लोकों का संकलन एवं कक्षा में सस्वर श्लोक वाचन।	
जनवरी	पाठ-९ बुद्धिमान् गोपालकः	धातु रूप-पा, दृश्, वस् (प्रत्यय-तरप्, तमप्)	व्यवहारिक क्षमता का विकास करना। कठिन परिस्थितियों में धैर्यवान् रहकर बुद्धि का प्रयोग करना।	१. कथा का शुद्ध-शुद्ध वाचन २ कथा का नाट्य मंचन	
	पाठ-१० मधुर वचनानि पठित पद्यांश	संस्कृत में संख्या (१-५०) लेखन। विभक्ति-षष्ठी, सप्तमी विभक्ति पर आधारित अनुवाद	मानव की वास्तविक सुन्दरता (ज्ञान, दान, क्षमा आदि) के विषय में जानना श्लोकों का शुद्धोच्चारण सीखना।	श्लोकोच्चारण अर्थ सहित।	

फरवरी	REVISION				
	<p>संपूर्ण पाठ्यक्रम वार्षिक परीक्षा के प्रश्न पत्र में अर्धवार्षिक के निम्नांकित पाठों को शामिल करें</p> <p>पाठ ३- उपकारकः वृक्षाः</p> <p>पाठ ५-सूचनानि</p> <p>२. प्रत्ययाः - क्त्वा, ल्यप्</p> <p>३. सन्धि-दीर्घ गुण आपठित गद्यांश अनुवाद कार्यम् चित्रवर्णनम् पठित पद्यांश</p>				

## COMPUTER SCIENCE

MONTH	CHAPTER / LESSON	TOPICS/ CONTENTS	LEARNING OUTCOMES	ACTIVITIES / PROJECTS	PRACTICALS (IF APPLICABLE)
APRIL	Ch -1 The evolution of computers	.Generation of computers .Tech Trends	Students are able to :- Understand about different generation of computer	Pg no - 2,3,4,10,11 Assessment Activity	Pg no - 2,3,4,10,11 Assessment Activity
MAY	Ch- 2 Scratch -I	Introduction to creative computing scratch. Scratch interface and its components. Working with sprite, editing sprite. Resizing and creating a costume in Sprite.Saving, sharing and Resizing a project	Students are able to :- .Basic knowledge about Scratch and its components . Knowledge about Scratch project,saving and Resizing project	Pg no 16,18,19,20,22,25  Assessment Activity 26	Pg no 16,18,19,20,22,25  Assessment Activity 26
JUNE	Ch -3 Scratch -II	. Scratch programming blocks .Writing a script using motion blocks .Animating the background	Students are able to :- . Understand about different blocks of Scratch	Pg no 27,29,30,31,33,34,35,37,39,41 Assessment Activity	Pg no 27,29,30,31,33,34,35,37,39,41 Assessment Activity

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**Syllabus - Class - VII**


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JULY	Ch-4 Introduction to GIMP image editing tool	.An introduction . Understanding GIMP window . Creating new file .Opening an existing file	Students are able to:- Introduction of GIMP window and its components and some basic works like create, save and open file in GIMP.	pg no. 45,46,50, 52,55	pg no. 45,46,50, 52,55
AUGUST	4. Introduction to GIMP image editing tool .	• Saving file (.XCF and other formats) .Starting with image windows .Image editing tools	Students are able to:-  Use Image editing tool	Pg no 56,58,62, 65, 76 Assessment Activity	Pg no 56,58,62, 65, 76 Assessment Activity
SEPTEMBER	REVISION + HALF YEARLY EXAMINATION SYLLABUS -CH 1 to 4				
OCTOBER	Ch - 5 GIMP Tools	.Painting in GIMP- pencil and paintbrush tools  .Shear tool, flip tool, rotate, perspective, blur/sharpen tool, smudge tool, dodge/ burn tool and blend tool	Students are able to:-  • Understand the Uses of different tools in GIMP	Pg. no. 77, 80  Pg. no. 82, 85, 87, 89  Pg. no. 92, 95	Pg. no. 77, 80  Pg. no. 82, 85, 87, 89  Pg. no. 92, 95

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**Syllabus - Class - VII**


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NOVEMBER	Ch - 6 Advanced GIMP	<ul style="list-style-type: none"> <li>Operations on layer (add, rename, delete, duplicate, scaling)</li> <li>Masking- introduction and example</li> <li>Filters</li> </ul>	<p>Students are able to:-</p> <ul style="list-style-type: none"> <li>Use of layers</li> <li>Use of Masking</li> <li>Use of filters</li> </ul>	<p>Pg. no. 98</p> <p>Pg. no 100, 101</p> <p>Pg. no. 107, 110, 111</p> <p>Assessment Activity</p>	<p>Pg. no. 98</p> <p>Pg. no 100, 101</p> <p>Pg. no. 107, 110, 111</p> <p>Assessment Activity</p>
DECEMBER	Ch -7 Basics of Internet .	<p>World Wide Web</p> <p>Web Server</p> <p>Web Browser</p> <p>Web sites and Web pages</p> <p>URL</p> <p>Blogs types and features</p> <p>Social Networking</p>	<p>Students are able to:-</p> <ul style="list-style-type: none"> <li>Understand Internet and its terms and use.</li> </ul>	<p>Pg. no. 114, 115</p> <p>Pg. no.120,121,122</p> <p>Pg no. 124,125</p> <p>Assessment Activity</p>	<p>Pg. no. 114, 115</p> <p>Pg. no.120,121,122</p> <p>Pg no. 124,125</p>
JANUARY	Ch -8 Internet and Web Services	<ul style="list-style-type: none"> <li>Chat, E-Mail</li> <li>Video Conferencing</li> <li>Social Networking</li> <li>E-Groups</li> <li>E-learning</li> <li>E-Commerce</li> <li>E-shopping</li> <li>E-Reservation</li> </ul>	<p>&gt; Students are able to:-</p> <ul style="list-style-type: none"> <li>Understand Different types of Internet services in our day-to-day life and its uses.</li> </ul>	<p>Pg. no. 126, 128, 129 Pg. no. 132, 135</p> <p>Pg no. 139, 140</p> <p>Pg no. 142</p>	<p>Pg. no. 126, 128, 129 Pg. no. 132, 135</p> <p>Pg no. 139, 140</p> <p>Pg no. 142</p>
FEBRUARY	REVISION	<p>ANNUAL SYLLABUS -Ch 1 to 8</p> <p>Or</p> <p>Term I –Ch 1,2</p> <p>Term II- Ch 5 to 8</p>			



## नैतिक शिक्षा (वर्ग- सातवीं)

महीना	पाठ / शीर्षक	ACTIVITIES/ PROJECTS	LEARNING OUTCOMES	PRACTICALS (IF APPLICABLE)
अप्रैल, मई	1 प्रार्थना 2 आर्य कौन हैं?			
जून, जुलाई	3 ईमान का महत्व 4 ये कैसा परिश्रम...! 5 कौन हैं सुदामा?			
अगस्त	6 क्या तुम्हें पता है? 7 गुरुदत्त का समर्पण			
सितंबर	अर्द्ध- वार्षिक परीक्षा पुनरावृत्ति			
अक्टूबर, नवंबर	8 निंदक नियरे राखिए 9 जीवन एक धुनीती			
दिसंबर, जनवरी	10 ज़रा धीमे बोलो 11 बार्टर सिस्टम 12 एक हिंसा ऐसी भी			
फरवरी	13 कहीं यह फोमो तो नहीं आर्य समाज के नियम			
मार्च	वार्षिक परीक्षा पुनरावृत्ति			

**NOTE**

