

Yash Memorial School

Sector 58, Gautam Buddh Nagar, Noida, Uttar Pradesh-201307 Yearly Syllabus of (2024-25) Class -9

SUBJECT: ENGLISH

Prescribed Books:

- 1) Text Book Beehive (NCERT)
- 2) Supplementary Reader Moments (NCERT)

ADDII

BEEHIVE -The Fun They Had, The Road Not Taken (poem), Wind (poem), The Sound of Music [1. Evelyn Glennie, 2. Ustad Bismillah Khan], **MOMENTS** - The Lost Child, The Adventures of Toto, Iswaranthe Story Teller

GRAMMAR - Determiners, Tenses, Integrated Grammar

WRITING-Formal Letter

JUNE

BEEHIVE- Rain on The Roof, The Little Girl

MOMENTS- In the kingdom Of Fools, The Happy Prince **GRAMMAR**- Parts of Speech, Sentence & It's Kind

WRITING - Comprehension, Story Writing

<u>JULY</u>

BEEHIVE -The Lake Isle of Innisfree (poem), A Truly Beautiful Mind, A

Legend of The Northland (poem)

MOMENTS - Weathering the Storm InErsama

GRAMMAR - Passive voice, Subject-verb Agreement, Integrated

WRITING – Short Composition

AUGUST

BEEHIVE - The Snake and The Mirror, My Childhood, Packing, No Men are

Foreign

MOMENTS - Weathering the Storm InErsama

GRAMMAR –Punctuation & Spelling, Prepositions, Integrated Grammar

WRITING-Application Writing

SEPTEMBER - Revision for Half yearly Exams

OCTOBER

BEEHIVE - The Duck And the Kangaroo, Reach For the Top [1. Santosh

Yadav, 2. Maria Sharapova]

MOMENTS- The Last Leaf

GRAMMAR - Direct& Indirect Speech

WRITING - Diary Entry

NOVEMBER

BEEHIVE - The Bond of Love, Kathmandu, On Killing A Tree, The Snake trying (poem)

MOMENTS - A House Is Not a Home

GRAMMAR - Integrated Grammar (Revision) **WRITING** - Revision (Story Writing, Letter Writing)

BEEHIVE - A Slumber Did My Spirit Seal, If I Were You **MOMENTS** - The Accidental Tourist, The Beggar **GRAMMAR** - Integrated Grammar

WRITING - Revision (Article writing, Comprehension)

JANUARY - Revision full Syllabus FEBRUARY- Mock Test MARCH- Final Exam

Subject :- Hindi

1. (0) 000000 0000 00 00000 00 00000000 00000 (000000
(a) 000000 0000 00 00000 00 00000000 00000—000000
2.
(000-000, 00000, 0000000, 000, 000000, 000000
(0000, 0000, 0000, 00000000 000000000, 000000
4. 000000000000000000000000000000000000
5. 00000000 000000 00-(00000, 000000-000000 000 0000000000
6. 00000000 000000 00 000000 000 00000 000 0000
,
7. (1) □□□□□ □□□□□□□□□- (2)
(2)
8.
1-00-0000000000000000000000000000000000
2-000-0000 000 0000-00000, 0000000
3-00000-000000,0000000,000,0000-000000,00000,00000
9. DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
0-0000 0000-00000, 000000, 000000
0-000000 000 0000000000-0000 000 00000
10.
11.
:

	00000000000
00000	0000000000
	00000 000000 00000000
	000000000000
00000	000000000000
000000000000000000000000000000000000000	0000 0000000
0000 00 000000	000000000000

	0000
	0000
00000	000000
	0000
	000000000000000000000000000000000000000
	00000000000000
	000000000000
	"00000"
00000000000	0000 000 0000000
00 00 00000	000000 000 00000
0000 00 00000 0000	00000000
	00000 000 000000

00000	000 00000 00000
	000 0000 0000
	000 0000000 000
000000000000000000000000000000000000000	
	000000000000

- (0) 00000 0000 00 00000 00 00000000 00000-(000000, 0000000 (0000000)) (5)

0-00000-000, 00000000, 00000 (0000000, 000000, 000000) 9. $\Box\Box\Box\Box\Box\Box\Box\Box\Box\Box\Box\Box\Box$ (2 + 1 + 1 + 2 = 6) 10.

Subject:-Mathematics

MONTH	UNIT/TOPIC	PRACTICALS/ART INTEGRATED ACTIVITIES /INNOVATIVE PEDAGOGY	LEARNING OUTCOMES
	Number system	Lab activity/ Art Integrated activity: To construct square root spiral with coloured paper Using coloured papers,To verify identity (a+b+c)²=a²+b² +c²+2ab+2bc+2ca.	Represent natural numbers, integers, rational numbers on the number Line and terminating / non-terminating recurring decimals on the number Line through successive magnification. Recall of Laws of exponents with integral powers. Rational exponents with positive real bases.
Pol	Polynomials	Worksheets: MCQ based. Hots question based. Based on simple concepts. Audio Visual teaching aids: Smart class module.	 Method of Rationalization. find Factors and multiples. Zeros of a polynomial. State the Remainder Theorem with examples. Statement and proof of the Factor Theorem. Recall of algebraic expressions and identities.

	Lines and angles	Lab activity/ Art Integrated activity: To verify Pythagoras theorem by paper cutting method Worksheets:	Students will be able to- Recall if a ray stands on a Line, then the sum of the two adjacent angles so formed is 180° and the converse. Recall if two Lines intersect, vertically opposite angles are equal. Results on corresponding angles, alternate angles, interior angles
MAY	Linear equation in two variables	 MCQ based. Hots question based. Based on simple concepts. 	when a transversal intersects two parallel Lines. Understand that a Linear equation in two variables has infinitely many solutions. Draw graph of Linear equations in two variables.

JUNE	Coordinate geometry Heron's formula	Lab activity: Geo gebra as a tool can be used for Coordinate geometry Worksheets: MCQ based. Hots question based. Based on simple concepts. Audio Visual teaching aids: Smart class module. Different software can be used like Geo Gebra.	• Define the Cartesian plane, coordinates of a point, names and terms associated with the coordinate plane, notations, plotting points in the plane. • Find area of a triangle using Heron's formula (without proof) and its application.
	Triangles	Lab activity: To verify that sum of external angles of a regular polygon is 360°. • To verify Pythagorastheorem by papercutting method. Worksheets: MCQ based.	Students will be able to: Recall rules of congruency i.e. SSS, ASA, SAS and RHS. Prove of the angles opposite to equal sides of a triangle are equaland vice versa.
JULY	Quadrilateral	Hots question based. Based on simple concepts. Quiz based on different concept can be organize. Audio Visual teaching aids: Smart class module. Different software can be used like Geo Gebra.	 Recall The sum of the angles of a triangle is 180°. If a side of a triangle is produced, the exterior angle so formed is equal to the sum of the two interior opposite angles. Prove that diagonal divides a parallelogram into two congruent triangles. Recall in a parallelogram opposite sides are equal, and conversely. If a pair of its opposite sides is parallel and equal.

		Lab /Sports Integrated activity:	Students will be able to:
AUGUST	Art Integrated projectwork under Ek BharatShrestha Bharat Programme	To measure the area of Basketball court, Badminton court, Volume of cylindrical Pole. To verify mid-point theorem. To verify that the quadrilateral obtained by joining the mid points of the sides of the quadrilateral is a parallelogram. Art Integrated Project State paired with Arunachal Pradesh Audio Visual teaching aids: Smart class module. Different software can be used like Geo Gebra.	Proof of Midpoint theorem i.e. in a triangle, the Line segment joining the mid points of any two sides is parallel to the third side and in half of it and its converse. Problems based on parallelogram divides it into twocongruent triangles. Proof the diagonal of a quadrilateral bisect each other, then it is a parallelogram. Integrate Maths with differentart forms. Understand the diverse culture of our country create awareness aboutthe different art forms in other States. Help students toimprovetheir cognitive abilities. Exploremoreinthe weaving technology andtoidentify the Mathematical concepts involved inthe artform- Most popular motives are Zig-Zag lines and angular designs
SEPTEMBER	Surface area and volume	Lab activity: • To find the area of a right circular cylinder. • To transform a square into a triangle both having equal area. ☑ Worksheets: • MCQ based. • Hots question based. • Based on simple concepts.	• Find surface areas and volumes of cubes, cuboids, spheres (including hemispheres) and right circular cylinders/cones.

OCT	Statistics	Introduce the processof constructing Mathematical Models The process of Modeling, its Advantage and Limitations. Worksheets: MCQ based. Hots question based. Based on simple concepts.	• Understand the concept of collection of data, presentation of data — tabular form, ungrouped / grouped, bar graphs,
NOVEMBER	Circles	Worksheets: MCQ based. Hots question based. Based on simple concepts.	Proof of the angle subtended by an arc at the center is double the angle subtended by it at any point on the remaining part of the circle. Angles in the same segment of a circle are equal.
DECEMBER	Probability	Worksheets: MCQ based. Hots question based. Based on simple concepts. Audio Visual teaching aids: Smart class module. Different software can be used like Geo Gebra.	Understand experiments and observed frequency approach to probability. Focus is on empirical probability.
JANUARY	Construction	Worksheets:	Students would be able to: Construct bisectors of Line segments and angles of measure60°, 90°, 45° etc., equilateral triangles. Construct triangle given its base, sum/difference of the other two sides and one base angle.

SCIENCE

PHYSICS

Content / Topic	1 st & 2 nd Week	3 rd Week	4 th Week	5 th Week
Chapter 8: Motion	Chapter 8: Introduction Rest & motion – Definition with Examples Scalar and vector quantities Motion along a straightline Distance Displacement	Chapter 8: 2 Uniform motion 2 Non uniform motion 2 Speed 2 Average speed 2 Speed with direction 2 Average velocity 3 SI units 3 Numerical	Chapter 8: Acceleration and retardation Uniform accelerationand non uniform acceleration Numerical	Chapter 8: Graph: concept and importance Graphical representationof motion by d-t graph Calculation of speed from d-t graph.
Practical Learning Objectives	Recognition of the apparatus in the lab. Students will be able to Get aware about meaning of rest and motion differentiate between distance and displacement. calculate the average speed in a given situation.			
Expected Learning Outcome	 state the examples of uniformly accelerated motion. Understand the difference between acceleration and retardation identify the type of motion from d-t graph. The learners would be able to explain about motion and rest state of a body. Differentiate between scalar and vector quantities Explore the concepts of acceleration and critically analyze different types of graphs. find difference between speed and velocity and its calculation Develop meaning of speed and its unit Calculate speed from distance time graph. 			

	 evaluate the numerical value speed, velocity, acceleration distance and displacement. to correlate various physical quantities like distance, displacement, average speed, acceleration and retardation etcwith day to day observations. 			
Teaching Aid	Smart Class Module			
Assessment	Ready question bankClass test			

MONTH: June

Content / Topic	1 st Week	2 nd Week	3 rd Week	4 th Week
Chapter 8: Motion	Chapter 8: Graphical representation of motion by v-t graph Calculation of acceleration fromv-t graph Numericals basedon graphs	 Chapter 8: Calculation of distance from v-t graph Numericals based on graphs Equations of motionby graphical method- Equation for velocity time relation 	Chapter 8: Equations of motionby graphical method- Equation for position time relation Equation for position velocity relation Numerical problems based on equations of motion.	Chapter 8: Uniform circular motion Discussion of NCERT exercise SUMMER BREAK
Practical/Activity	To determine the direction of motion of a body moving in a circular path.			
Learning Objectives	identify the type of modevelop numerical sol	ving skills pt of equations of motion.	ifferent types of motion.	

Expected Learning Outcome	The learners would be able to					
	 Evaluate acceleration and distance from v-t graphs. Derive the three equation of motion graphically represent motion of given situation in graphical manner Solve numerical based on equation of motion. Explain uniform circular motion, and reason out why it is known as an accelerated motion with the help of anactivity. 					
Teaching Aid	Smart Class Module					
Assessment	Ready question bank					

MONTH: JULY

Content / Topic	1 st Week	2 nd Week	3 rd Week	4 th Week	5 th Week	
Chapter 9 : Force and Lawsof Motion	 Chapter 9: Force – Definition, effects Types of force Balanced and unbalanced forces. 	 Chapter 9: Newton's first law of motion Definition of inertia Reasoning questions basedon first law. 	 Chapter 9: Newton's second law of motion. Derive F=ma Momentum, impulse – definition and units. 	Reasoning questionsand numericals based on second law. Newton's third lawof motion	Chapter 9: Reasoning Questions based on third law. Discussion of NCERT questions	
Practical/Activities	 To find relation between the directions of action and reaction forces. To demonstrate third law of motion. 					

Learning Objectives	Students will be able to
	understand force and its effects
	understand meaning of balanced and unbalanced forces
	• understand newton's laws and their applications in daily life.
	explain the terms like inertia, impulse and momentum.
	calculate force acting on an object, the momentum associated with any moving object.
Expected Learning	The learners would be able to
Outcome	
	recall what is force and its effects and cite examples. recall what is force and its effects and cite examples.
	differentiate between balanced and unbalanced forces
	• give examples of inertia of rest, inertia of motion and explain how inertia is related to mass.
	evaluate the numerical value of force and momentum.
	• explain the laws of motion in various situations.
	• formulate Newton's second law of motion mathematically.
	• relate different physical quantities
Teaching Aid	Smart Class Module
Assessment	Ready question bank
	• Class Test

MONTH: AUGUST

Content / Topic	1 st Week	2 nd Week	3 rd Week	4 th Week		
Chapter 9: Force and Laws of Motion Chapter 10: Gravitation (Part I)	Chapter 9: Conservation of momentum. Numerical problems based on conservation of momentum Discussion of NCERT exercise	Chapter 10 : Introduction Newton's Lawof gravitation Importance Numericals	Chapter 10: Free fall Difference between 'g' and 'G'. Derive formula of 'g Value of 'g' on earth.	 Chapter 10: Variation in g from poles to equator Factors on which 'g' Depends Equations of motion during free fall Numericals based on free fall Difference between mass and weight. Weight of an object on moon. 		
Practical	To find out least cou	Int of spring balance and	l understand its working.	<u> </u>		
Learning Objectives	 Understand the concept of conservation of momentum Understand the concept of Newton's law of gravitation. Differentiate between g and G; mass and weight. Calculate quantities using equations of motion during a free fall. 					
Expected Learning Outcome	 The learners would be able to calculate change in momentum in different situations. state universal law of gravitation and derive it mathematically and give its importance. evaluate the numerical value of g at different places like earth and moon. comprehend to the concept of acceleration due to gravity and its variation with poles. differentiate between mass and Weight and their calculation calculate the weight of given object on moon and earth. 					
Teaching Aid	Smart Class Module					
Assessment	Note book Assessment	ent				

MONTH: SEPTEMBER

Content / Topic	1 st Week	2 nd Week	3 rd Week	4 th Week	5 th		
					week		
	● Revision	RevisionPTII	• PTII	● PTII	 Distribution and discussion of PT-II answer sheets and correction of the same. 		
Practical							
Learning Objectives	Students will be able to						
	know and correct the mistakes done in the answer sheets of PT-II						
Expected Learning Outcome	The learners would be able to						
	Understand and evaluate the errors and mistakes done in the paper and would be able to improve upon the same throughcorrection.						
Teaching Aid	Sample Papers, Answer sheets and suggested answers.						
Assessment	Class Tests						

MONTH: OCTOBER

Content / Topic	1 st Week	2 nd Week	3 rd Week	4 th Week
Chapter 10 : Gravitation(Part II) Chapter 11: Work and Energy	Chapter 10:	Chapter 10:	Chapter 10:	Chapter 11: Introduction Work done by constant force Positive work Negative work
	BuoyancyWhy do objects float and sink?			Numerical

Practical	To determine density of solid (denser than water) by using a spring balance and a measuring cylinder
Learning Objectives	Students will be able to
	• to explain the applications of thrust and pressure.
	understand the concept of flotation.
	relate Archimedes' principle with floating objects.
	understand the formula for work and types of work
Expected Learning Outcome	The learners would be able to
	define thrust and pressure and solve numerical problems based on them.
	calculate the density of a given solid.
	Explain the concept of buoyancy and explain why certain objects float or sink .
	comprehend to the meaning of work according to science
	 explain the reason of considering work as positive or negative work.
	Solve numerical based on work done
Teaching Aid	Smart Class Module
Assessment	Ready question bank
	Class test

MONTH: NOVEMBER

Content / Topic	1 st & 2 nd Week	3 rd Week	4 th Week	5 th Week
Chapter 11: Work and Energy	Chapter 11: Energy and its forms Kinetic energy Derive the expression forKE Numericals on KE	Chapter 11: Potential energy Derive the expression forPE Numericals on PE Transformation of energy	Chapter 11: Law of conservation of energy Conversion of PE	Relation between SI unitand commercial unit energy Numerical
			to KE	

	during a free fall Power Commercial unit of electrical energy					
Practical	To establish the relation between the loss in weight of a solid when fully immersed in (a) tap water (b) strongly saltywater, with the weight of water displaced by it by taking at least two different solids					
Learning Objectives	 Students will be able to Identify and list different types of energy. understand the phenomenon of transformation of energy understand the relation between commercial and SI unit of energy. 					
Expected Learning Outcome	The learners would be able to comprehend various examples showing transformation of energy. Define energy and classify mechanical energy into kinetic and potential energy. derive expression of KE and PE explain different types of energy. Comprehend to energy transformation in case of pendulum. State law of conservation of energy and Establish relation between SI and commercial unit of energy.					
Teaching Aid	Smart Class Module					
Assessment	 Ready question bank Class test 					

MONTH: DECEMBER

Content / Topic	1 st Week	2 nd Week	3 rd Week	4 th Week	5 th Week	
Chapter 12 : Sound	Chapter 12:	Chapter 12:	Chapter 12:	Chapter 12:	Chapter 12:	
	 Introduction Production of sound Propagation of sound 	 Sound needs medium to travel Types of waves – Longitudinal and transverse waves 	 Characteristicsof wave – Wavelength, speed, amplitude and frequency Numericals 	 Speed of sound in different media Reflection of sound 	 Echo Numericals based on echo. Reverberation 	
Practical	To determine velocity of aTo verify laws of relection		a stretched string/slinky			
Learning Objectives	list various characteristicsdifferentiate between differentiate		the propagation of sound			
Expected Learning Outcome	 The learners would be able to visualize sound as waves and explain that sound cannot produce without vibrating object. Able to explain different characteristics of sound waves and represent the propagation of sound with densityand pressure variations graphically. establish the relationship between velocity, frequency and wavelength of a sound wave. Solve simple numericals based on relation between velocity, frequency and time period identify the medium where speed of sound becomes maximum 					
Teaching Aid	Smart Class Module					
Assessment	• question bank					

MONTH: JANUARY

Content / Topic	1 st Week	2 nd Week	3 rd Week	4 th Week

Chapter 12 : Sound	Winter Break	 Recap of previous topics Chapter 12: Uses of multiple reflection of sound Range of Hearing Infrasound Ultrasound 	 Chapter 12: Applications of ultrasound SONAR Working of a SONAR Numericals based on SONAR 	 Chapter 12: Structure of human ear Functions of various parts of human ear Discussion of NCERT exercise 		
Practical	Practice of practical ba	ased questions				
Learning Objectives	 Students will be able to understand the meaning of reverberation comprehend the concept of infrasound, ultrasound and their applications. students will be able to solve numerical based on echo, SONAR etc. understand the functions of various parts of human ear. 					
Expected Learning Outcome	 The learners would be able to know about condition that is required for echo to take place apply concept of multiple reflection of sound in real life situations classify sound waves as infrasonic and ultrasonic and list their applications in daily life. Appreciate use of 'ultra-sounds' by animals / birds like dogs and bats and by fishes, like the dolphin Do numerical calculations associated with 'SONAR'. Draw the structure of human ear and explain the functions of its parts. 					
Teaching Aid	Smart Class Module					
Assessment	 Note book Assessment Subject Enrichment Activity Assessment 					

MONTH: FEBRUARY

Content / Topic	1 st Week	2 nd Week	3 rd Week	4 th Week		
Revision	Revision	Annual exam	Annual exam			
Learning Objectives	Students will be able to	tudents will be able to				
	know and correct the mistakes done in the answer sheets of Final Examination.					

Expected Learning Outcome	The learners would be able to		
	 understand and evaluate the errors and mistakes done in the paper and would be able to improve upon the same through correction 		
Teaching Aid	Sample papers, Answer sheets and suggested answers		
Assessment	Annual exam		

CHEMISTRY

MONTH-APRIL

Content/Topic	1 st Week and 2 nd Week	3 rd Week	4 th Week	5 th Week
Chapter 1: Matter In Our Surroundings	 Physical nature of matter. Matter-Characteristics of the particles of matter. The solid state The liquid state 	 The gaseous state. Interconversion of the states of matter. Effect of change of temperature and pressure on the stateof matter. 	 Conversion formula (K=C+273). Latent Heat. Latent heat of fusion. Latent heat of vaporization. 	 Evaporation Factors affecting the rate of Evaporation Discussion of NCERT exercise.
Practical	To determine the melting point of ice and boiling point of water.			
Learning Objectives	It will enable the students to: describe matter and the characteristics of the particles of matter. understand the differences between the various states of matter. evaluate the conditions for the interconversion of various states of matter. explain latent heat of fusion and latent heat of vaporization. discuss Evaporation and explain various factors influencing evaporation.			
Expected Learning Outcomes	 Students would be able to: Understand the concept of matter and its characteristic State the difference between solid, liquid and gas on the basis of intermolecular force, density, rigidity, compressibility, diffusion, shape, volume and fluidity Show the relation between Kelvin and Celsius temperature and their effect of change oftemperature on the states of matter Understand the effect of change of temperature, pressure and both on the states of matter Understand the concept of melting, boiling, freezing, sublimation and condensation Understand the concept of latent heat of fusion and latent heat of vaporization 			

	Understands and state the factor affecting the rate of evaporation	
	 Understand how evaporation causes cooling 	
Teaching aids	Smart Board Content	
Assessment	Ready Question bank	
	Class Test	

MONTH: JUNE

Content/Topic	1 st Week	2 nd Week	3 rd Week	4 th Week
Chapter 2: Is Matter Around UsPure?	Chapter 2 Mixtures and pure substances. Mixtures – homogeneous and heterogeneous.	 Mixtures as solutions or true solutions. Solution: Homogeneous and heterogeneous solution. Properties of a solution. 	 Concentration of a solution. Numericals on solubility and concentration of solution. 	 Solubility of a substance (Temperature and Pressure dependence) Saturated and unsaturated solution.
Practicals	To the study of the properties of mixture (iron fillings and sulphur powder) and compound (iron sulphide) on the basis of their behaviour towards magnet, behavior towards carbon disulphide, effect of heat and reaction with dil. HCl (aq).			
Learning Objectives	It will enable the students to: describe and differentiate between elements, compounds and mixtures with examples. discuss homogeneous and heterogeneous mixtures with examples. explain physical and chemical changes with examples. describe the different types of solutions and their properties understand the properties of True solution			

Expected Learning	Students would be able to: -
Outcomes	
	 classify substances as pure (element, compound) and impure (mixture) substances.

	 analyse the differences in the properties of elements, compounds and mixtures. 				
	 classify elements as metals, non-metals and metalloids based on their general physical properties. 				
	Understand the concept of mixture and compound				
	 classify mixtures as homogeneous and heterogeneous mixtures with examples from daily lives. 				
	State the difference between physical change and chemical change				
	 Ana lyse the differences in physical and chemical changes and apply their knowledge and understanding in dailylives. 				
	analyse the characteristics of true solution and various types of true solutions				
Teaching aids	Smart Board Content, Ready reckoner				
Assessment	Ready Question Bank,				
	• Class Test				

MONTH: JULY

Content/Topic	1 St Week	2 nd Week	3 rd Week	4 th Week	5 th Week
Chapter 2: Is Matter Around UsPure?	Chapter 2 Suspension Properties of suspension.	 Colloids Properties of colloids. Various types of colloids. 	 Separating the components of Mixtures: (techniqueused, principle involved and applications). How can we obtain coloured component (dye) from blue/ blackink? (Evaporation) 	 How can we separate cream frommilk? Disussion on Churning and Centrifugation. How can we separate a mixture oftwo immiscible liquids? Discussion on use of separating funnel. 	 How can we separate a mixture of salt and camphor? Discussion on process of Sublimation.
Practicals	To study the properties of true solution, suspension and colloid and distinguish between them on the basis oftransparency, stability and filtration.				
Learning Objectives	 It will enable the students to: calculate the solubility and concentration of the solution. evaluate the dependence of solubility on temperature and pressure. describe the properties of suspensions and colloids 				

	comprehend the difference between true solution, suspension and colloids on the basis of their properties				
Expected Learning	Students would be able to:				
Outcomes	 classify solutions as true solution, suspension and colloid on the basis of properties shown by them-transparency, stability and filtration. categorise solutions as true solution, suspension and colloid with examples from daily lives with understanding. explain tyndall effect with examples from day today life. apply their knowledge and understanding of solubility and concentration of a solution in numericals. 				
Teaching aids	Smart Board Content				
Assessment	Ready Question Bank				
	Class Tests				

MONTH: AUGUST

Content/Topic	1 st Week	2 nd Week	3 rd Week	4 th Week
Chapter 2: Is Matter AroundUs Pure?	 Chapter 2 Is the dye in black ink a single colour? Discussion on the technique of Chromatography and its applications. How can we separate a mixture of two miscible liquids? Discussion on distillation and its applications. 	 Discussion on fractional distillation and its applications. How can we obtain different gases from air? Discussion on the effectof pressure and temperature for the separation of gases of air. 	 How can we obtain pure copper sulphate from an impure sample? Discussion on the technique of crystallization for obtaining pure substances. Water purification system. Physical and chemical changes. 	 Classification of Elements – metals, nonmetals and metalloids. Elements and Compoundsas pure substances. Discussion of NCERT textbook exercise questions.
Practicals	 To separate the components of a mixture of ammonium chloride, common salt and sand by sublimation. 			

	 To study the following chemical reactions:-displacement reaction and double displacement reaction, combination reaction and decomposition reaction. 				
Learning Objectives	The students will be able to:-				
	 differentiate between various separations techniques and analyse them on the basis of principle involved and theirapplications. appreciate the role of various techniques in the separation of the components of mixture. 				
Expected Learning	The students would be able to:-				
Outcomes	 apply their knowledge and understanding of principle involved in each technique in day today life activities. compare and analyze the parameters of technique to be applied in various situations. (evaporation/crystallisation) or(distillation/fractional distillation) or (filtration/centrifugation) 				
	Separating component of a mixture				
	Separation of ink from dye and its application				
	Separation of two miscible and immiscible liquid				
	 Separating through distillation and fractional distillation and its application 				
	Separating through crystallisation and its application				
	2. appreciate the role of each technique and it's applicability in large scenario.				
	Critically analyse separation techniques in separation of components of air and water purification and amalgamatethem to design better techniques.				
Teaching aids	Smart Board Content				
Assessment	Note books Assessment Class to the				
	• Class tests				
	Ready Question Bank.				

MONTH: SEPTEMBER

Content/Topic	1 st Week	2 nd Week , 3 rd Week & 4 th Week	5 th Week
Revision PT II Exam	Revision	Periodic Test II Exam	Distribution and discussion of answer sheets
Practicals	Discussion of Practical b	ased questions	

Learning Objectives	It will enable the students to:
	 Recall and remember all the concepts Know and correct the mistakes done in the answer sheets of Term end I examination.
Expected Learning Outcome	Students would be able to:
	Recall and remember all the concepts
	The learners would be able to understand and evaluate the errors and mistakes done in thepaper and would be able to improve upon the same through correction
Teaching aids	Smart Board Content, Reference Book
Assessment	Ready question bank

MONTH: OCTOBER

Content/Topic	1 st Week	2 nd Week	3 rd Week	4 th Week		
Chapter 3: Atoms and Molecules	 Chapter 3: Introduction of the Laws of Chemical combination Law of conservation of mass. 	 Law of constant proportion Dalton's Atomic Theoryand its postulates. Practice of questions basedon Laws of chemical combinations 	 Numerical – a) Ratio by mass of atoms and by number of atoms. b) Percentage composition of the compound by weight 	 What is an atom? Atomic mass. Atomic mass unit. Existence of atoms. Molecules of elements and compounds. 		
Practical	To verify the law of conservation of mass.					
Learning objectives	It will enable the students to: • state the laws of chemical combination. • describe the laws of chemical combination. • evaluate Dalton's atomic theory with the present situation. • understand atoms, molecules and atomicity. • describe the role of unified Mass and Carbon 12 as standard for reference.					

Expected	Students would be able to:-	
Learning		
Outcomes	state the laws of chemical combination.	
	state both the laws of chemical combination with examples.	
	 analyse the importance and interdependence of both the laws of chemical combination on each other. 	
	 relate the postulates of Dalton's atomic theory with the laws of chemical combination and give explanation to thepostulates of Dalton's atomic theory which are being challenged now. 	
	differentiate between an atom and a molecule.	
	write atomicity for similar and dissimilar elements.	
	 define unified mass, relative atomic mass and give reason for the use of c-12 as standard for atomic mass. 	
	 recall the atomic masses of some prominent elements along with their symbols 	
	 comprehend the constituting elements in a compound and their combination on the basis of their mass ratios. 	
Teaching aids	Smart Board Content, Practice of numericals from reference books,	
Assessment	Class tests	
	Ready Question Bank.	

MONTH: NOVEMBER

Content/Topic	1 st Week	2 nd Week	3 rd Week	4 th Week and 5 th Week		
Chapter 3: Atoms and Molecules	lonsWriting chemical formulae	 Formulae of simple compounds. Molecular mass 	 Formula unit mass Molar mass Numerical and practiceof molecular mass, formula unit mass of compounds 	 Introduction to Mole concept (relationship of mole and mass of a substance) Numerical on mole Concept (relationship of mole and number of particles) 		
Practical						
Learning Objectives	It will enable the students to: discuss various ions and using them for writing chemical formula. calculate Molecular Mass and Molar Mass understand the significance of mole in terms of mass and number of particles					

Expected Learning	Students would be able to:-				
Outcomes					
	Understand the concept of molecules and atomicity.				
	Write the ratio by mass or ratio by number of atom of a compound				
	differentiate between an atom and an ion				
	 define and write examples of cations, anions and polyatomic ions. 				
	apply their knowledge of ions in writing chemical formulae.				
	calculate the molecular mass and molar mass.				
	 analyse the role of unified mass and gram molecular/atomic mass. 				
	 define the term mole and explain it's significance in daily life situations. 				
	apply the concept of mole in terms of mass and number of particles				
Teaching aids	Smart Board Content, Practice of numericals from reference books,				
Assessment/ Activity	Ready question bank, Class Tests				

MONTH: DECEMBER

Content/Topic	1 st Week	2 nd Week	3 rd Week	4 th Week	5 th Week
Chapter 3: Atomsand Molecules Chapter 4: Structure of Atom	• Numericals on mole Concept (relationship of mole and number of particles)	Discussion of NCERT text book exercise questions	 Chapter - 4 Charged particlesin matter. Discovery of electrons and protons and their properties. Thomson's modelof atom. 	 Drawbacks of Thomson's model of atom. Rutherford's model of an atom: Experimental set up, observations and conclusions. Nuclear model of an atom by Rutherford Limitations of Rutherford's model of an atom. 	 Introduction to the Neil Bohr model of atom. Bohr's model of atom.
Practical		Discussion of Practic	cal based questions.		

Learning	It will enable the students to:
Objectives	
	The students will be able to:-
	 understand the significance of mole in terms of mass and number of particles.
	 comprehend the existence of various sub atomic particles.
	 explain Thomson's and Rutherford's model of an atom.
Expected Learning	Students would be able to:
Outcomes	
	 apply the concept of mole in terms of mass and number of particles.
	analyse Thomson's model of an atom
	 critically analyse alpha scattering experiment by comparing with the previous proposed model of atom.
	 compare the properties of the sub-atomic particles.
	Knowhow and who discovered the electron and canal rays
	 Understand the Thomson's model of atom
	 Justify the use of Gold foil by Rutherford in his alpha rays scattering experiment.
	 explain the observations of alpha scattering experiment in detail along with the supporting reasons.
	 Analysing the observations of Rutherford's experiment and deducing its drawbacks
	 Compare and contrast on the details of Thomson and Rutherford model of an atom.
Teaching aids	Videos, Smart Board Content, Practice of numericals from reference books
Assessment/	Power point presentations
Activity	Ready Question bank
Activity	

MONTH: JANUARY

Content/Topic	1 st Week	2 nd Week	3 rd Week	4 th Week
Chapter 4: Structure of Atom	Winter Break	 Discovery of neutrons. How are electrons distributed in different shells? Valency 	 Atomic number Mass number Isotopes, Isobars Average atomic masses. 	 Numericals on Average Atomic masses of isotopes Discussion of NCERT exercise questions.
Practical	• Discu	ssion of Practical based questions	,	•

Learning	It will enable the students to:						
Objectives							
	explain Bohr's model of an atom						
	understand the distribution of various electrons in shells						
	comprehend the concept of valency						
	 write the electronic configurations of first twenty elements along with their valency with explanation. 						
	explain atomic number and mass number						
	differentiate between isotopes and isobars						
	 discuss the applications of Isotopes. 						
	 describe the concept of average atomic mass of the isotopes with examples through numericals. 						
Expected Learning	Students would be able to:						
Outcomes							
	 explain Bohr's model of an atom and critically analyse by comparing with the previous proposed models ofatom. 						
	 write the electronic configurations of first twenty elements along with their valency with explanation. 						
	 write electronic configuration of the ions formed by the first twenty elements excluding the noble gases. 						
	 comprehend the meanings of atomic number and mass number and try to represent the element with them. 						
	 Analyse the difference between isotopes and isobars with examples. 						
	 compare the number of sub atomic particles of various isotopes of the same element. 						
	 write electronic configuration of the various isotopes of the same element. 						
	write the applications of isotopes in day today life.						
	 calculate the average atomic mass of the isotopes and give explanation for fractional atomic masses. 						
Teaching aids	Smart Board Content, Videos						
. catimip and	- Smart Board Content, videos						
Assessment/	Notebook assessment						
Activity	Subject Enrichment Activity						

MONTH: FEBRUARY

Content/Topic	1 st Week	2 nd Week	3 rd Week	4 th Week
Revision	Revision	Final Exams	Final Exams	
Final Exams				

Practical	Discussion of Practical based questions			
Learning Objectives	will enable the students to:			
	Recall and remember all the concepts			
Expected Learning Outcomes	Students would be able to:			
	Recall and remember all the concepts			
Teaching aids	Sample papers, suggested answers.			
Assessment/ Activity	Final Exams			

MONTH APRIL BIOLOGY

Content/Topic	1 st Week and 2 nd	Week	3 rd Week	4 th Week	5 th Week
Chapter- 5 The Fundamental Unit of Life	Chapter- 5 Discovery of cell Shapes of cell Unicellular and multicellular organisms	Division of labour Cell organelles Plasma membrane	 Diffusion and osmosis Cell wall Structures and functions of Nucleus 	 Cytoplasm Endoplasmic reticulum Golgi bodies Lysosome Mitochondria 	 Plastids Vacuoles Cell Division Discussion of NCERT Exercise Questions.
Practicals	To prepare stained temporary mounts of: (a) onion peel and (b) human cheek cells and to record observations and draw their labelled diagrams.				
Learning Objectives	It will enable the students to: understand the discovery understand the importan understand the meaning explain the functioning of differentiate between osr draw various parts of a ce compare between plant of Understand the meaning know the tissue and its ty				

Expected	Students would be able to:	
Learning Outcomes	 analyse the history behind discovery of cells interpret the importance of types of cells differentiate between prokaryotic and eukaryotic cell explain the structure and functions of plasma membrane explain the structure and functions of different organelles. Draw labelled diagrams of all important cell organelles. 	
	 differentiate between diffusion and osmosis with daily based examples. Correlate the change in shape in certain plant parts with this process. Compare the change in shape with the direction of movement of water molecules. interpret various types of tissues 	
Teaching aids	Class Board, Smart Board Content, Permanent slides,	2
Assessment	 Ready Question bank Class Test Diagram based assessment 	2

MONTH: June

Content/Topic	1 st Week	2 nd Week	3 rd Week	4 th Week	
Chapter-6 Tissues	Chapter- 6 •Tissues •Types of Tissues •Plant tissues	 Meristematic Tissues: Types and characteristics. Permanent tissue Types of permanent tissues 	 Simple permanent tissue: Typesand characteristics. Complex permanent tissue-Types and characteristics. Animal tissues and its types 	 Epithelial Tissues Connective tissue Muscular tissue Nervous tissue Discussion of NCERT Exercisequestions. 	
Practicals	 Identification of Parenchyma, Collenchyma and Sclerenchyma tissues in plants, striped, smooth and cardiacmuscle fibers and nerve cells in animals from prepared slides. Drawing of their labeled diagrams. To prepare a temporary stained mount of leaf to show the distribution of stomata on leaf surfaces. 				
Learning Objectives	It will enable the students to: Identify and locate the meristematic and permanent tissue on plant body understand the structure and functions of meristematic and permanent tissues classify permanent tissues as simple and complex tissues. Analyse the function of vascular tissue in plant body. explain structure the functioning of various animal tissues draw the shapes of various plant and animal tissues differentiate between various epithelial tissues and connective tissues				

	explain importance of nervous and muscular tissues		
Expected	Students would be able to: -		
Learning			
Outcomes	differentiate between meristematic and permanent tissues		
	• locate different tissues in the plant body.		
	• locate various animal tissues in the living organisms.		
	• corelate various animal tissues and their functions.		
	• Establish interdependence of animal tissues to carry out body functions.		
Teaching aids	Smart Board Content, Power Point Presentations, Permanent slides, Ready reckoner		
Assessment	Ready Question Bank		
	Diagram based assessment		
	Class Test		

MONTH: JULY

Content/Topic	1 st Week	2 nd Week	3 rd Week	4 th Week	5 th Week	
Chapter 7: Diversity in Living Organisms	 Basic features of organisms Importance of diversity Basis of classification Hierarchy of Classification 	 Introducing Five Kingdoms of classification. Kingdom Monera (Archae-bacteria and Eubacteria). 	 Kingdom Protista. Kingdom Fungi. Characteristics and comparative account. Basis of classification of Plant kingdom. 	 Division of kingdom Plantae Thallophyta Bryophyta Pteridophyta Characteristics and comparative account. 	 Gymnospermae, Angiospermae Dicotyledonous and monocotyledonous plants Discussion of NCERT Exercise Questions 	
Practicals	 Study of the characteristics of Spirogyra / Agaricus, Moss / Fern, Pinus (either with male or female cone) and anAngiospermic plant. Drawing and providing two identifying features of the groups they belong to. Study of the external features of root, stem, leaf and flower of monocot and dicot plants. 					
Learning Objectives	It will enable the students to: understand the cond	ept and importance of diversity				

	explain the method of classification				
	 classify organisms into various groups on the basis of five kingdom classification 				
	correlate different plant groups				
Expected Learning	Students would be able to:				
Outcomes					
	analyse the importance of biodiversity				
	State the importance of hierarchy in classifying organisms.				
	Understand the role of evolution in classification of organisms.				
	Stress upon the specific charcteristics to classify living beings into categories.				
	identify the organisms according to their biological names.				
	Justify the comparative account across all the Kingdoms.				
	Give a detailed comparison between divisions of plant kingdom.				
Teaching aids	Microscope, Permanent Slides, Smart Board Content, Ready reckoner.				
	Specimen study				
Assessment	Ready Question Bank				
	Diagram based assessment.				
	Field study.				

MONTH: AUGUST

Content/Topic	1 st Week &	2 nd Week	3 rd Week	4 th Week
Chapter 7: Diversity in Living Organisms	 Animal Kingdom Basis of classification of animal kingdom. Phyla- Porifera Coelenterata Characteristics and comparative account of above mentioned Phyla. 	 Phyla Platyhelminthes Nematoda Characteristics and comparative account of above mentioned Phyla. 	 Phyla- Annelida Arthropoda Mollusca Echinodermata Characteristics and comparative account of above mentioned Phyla. 	 Phylum Vertebrata Classes – Pisces Amphibia Reptilia Aves Mammalia Characteristics and comparative account of above mentioned Classes.

Practicals	 Binomial nomenclature Discussion of NCERT ExerciseQuestions. Observing the given pictures / charts / models of earthworm, cockroach, bony fish and bird. For each organism, drawing of their picture and recording: a) one specific feature of its phylum. b) one adaptive feature with reference to its habitat.
Learning Objectives	It will enable the students to: Identify the basis of classification of Kingdom Animalia. Categories animals into groups. State the comparative account of animal kingdom. understand the concept of binomial nomenclature (its need and application)
Expected Learning Outcomes	Students would be able to: - identify different types of animals based on characters differentiate chordates from non-chordates classify chordates based on features learn the method of nomenclature of organisms understand naming of organisms
Teaching aids	Smart Board Content, Specimens,
Assessment	 Note books Assessment Class tests Ready Question Bank.

MONTH: SEPTEMBER

Content/Topic	1 st Week	2 nd Week, 3 rd Week & 4 th Week	5 th Week		
Revision PT III Exams	Revision	Periodic Test II Exam	Distribution and discussion of answer sheets.		
Practicals	Discussion of Practical bas	sed questions			
Learning Objectives	It will enable the students t	It will enable the students to:			
	Recall and remember all the concepts				
Expected Learning Outcome	Students would be able to:				
	Recall and remember a	all the concepts			
Teaching aids	Class Board, Smart Board Content				
Assessment	Ready Question Bank				

MONTH: OCTOBER

Content/Topic	1 st Week	2 nd Week	3 rd Week	4 th Week	
Chapter 13: Why Do We Fall III?	 Health Difference between healthy and diseased person. Symptoms and signs of a disease. 	Acute and chronic disease.Causes of a diseaseInfectious agents	 Infectious and non- infectious disease. Spreading of a disease. 	 Organ and tissue specific manifestations Principle of treatment Principle of Prevention 	
Practical	Undertake a case study of a diseased person and prepare a detailed report.				
Learning objectives	It will enable the students to: understand meaning of health correlate diseases with their sym	ptoms and signs			

	differentiate between acute and chronic disease
	 classify various diseases into infectious and non-infectious diseases
	 correlate symptoms and organs
	explain the principle of immunization
	correlate vaccination and immunization
Expected Learning	Students would be able to:-
Outcomes	• disayon maasaan, sandikisna fay asad haalkh
	• discuss necessary conditions for good health.
	• Implement the necessary conditions for having a good health.
	• identify various symptoms of a disease.
	• identify various chronic and infectious diseases.
	Categorise the diseases according to the type of pathogen causing the disease.
	• classify infectious diseases and their agents from own experience.
	correlate immunization and vaccine for a disease.
	Explain the mechanism of vaccine action.
	 Justify the modes of prevention of diseases rather than their cure.
	Carry out a survey to do a case study on new born babies and their vaccination schedule and its importance.
	Carry out a survey in their locality to identify and report the occurance of any specific infection.
Teaching aids	Videos, Smart Board Content, Mind Map,
Assessment	Class tests
	Ready Question Bank
	Project based assessment.

MONTH: NOVEMBER

Content/Topic	1 st Week	2 nd Week	3 rd Week	4 th Week	5 th Week
Chapter 14: Natural Resources	 Natural Resources Wind formation Role of air in temperature control 	 Air pollution Acid rain Smog Water as a resource 	 Importance of water for a living organism Water pollution Effects of water pollution. 	 Weathering of rocks Agents of soil formation-wind, water, sun, organisms. 	Soil pollution.

Practical	Discussion of practical based Questions
Learning Objectives	It will enable the students to:
	Identify the natural resources.
	understand the concept of air as blanket.
	explain the causes of air pollution.
	differentiate between smoke and smog
	understand the concept of water pollution
	explain weathering of rocks
	know various agents of weathering
Expected	Students would be able to:-
Learning	
Outcomes	signify the importance of various natural resources
	Explain the formation of wind and soil.
	Explain the role of air in controlling the temperature of atmosphere.
	explain the various modes of polluting the resources.
	Explain the importance of water for all the biotic and abiotic factors.
	classify the different pollutants of water and soil.
	Explain in detail the effects of water and soil pollution on plants and animals. The solution of the sol
	Explain the factors leading to weathering of rocks and soil formation.
Teaching aids	Videos on importance of natural resources, Smart Board Content, Mind Map
Assessment/	Class discussions
Activity	Class tests
	Ready Question Bank

MONTH: DECEMBER

Content/Topic	1 st Week	2 nd Week	3 rd Week	4 th Week	5 th Week
Chapter-14: Natural Resources	Biogeochemical cycles- water	Carbon cycle and oxygen cycle.	Ozone layer depletion	Chapter-15Kharif and Rabi cropsPhotoperiodism	Factors of crop variety improvement

Chapter- 15: Improvement in FoodResources	Biogeochemical cycles- nitrogen cycle.	 Significance of biogeochemical cycles. Green house effect, Global Warming. 	Discussion of NCERT ExerciseQuestions.	Hybridisation	Green revolutionWhite revolution
Practical	Discussion of practical based Ques	stions	<u>l</u>		
Learning Objectives	It will enable the students to: understand the concept of ca explain the role of various org correlate pollution and ozone classify the causes of ozone d recognize the pictures related understand the Green revoluti understand the concept of ph describe crop improvement to explain meaning of term hybri	ganisms in recycling depletion epletion I to various sources tion otoperiodism echniques			
Expected Learning Outcomes	 explain meaning of term hybridization Students would be able to: Explain the interdependence of organisms on biogeochemical cycles Explain the formation of ozone and its importance to earth atmosphere. explain stability of oxygen in comparison to ozone. Analyse the effects of ozone layer depletion. Identify the Kharif and Rabi crops and justify their seasons of growth and harvest. Understand the improvisation of genetically modified crops. Interpret importance of hybridization 				
Teaching aids	Videos, Smart Board Content, Mind Map				
Assessment/ Activity	Power point presentationsReady Question bank				

MONTH: JANUARY

Content/Topic	1 st Week	2 nd Week	3 rd Week	4 th Week and 5 th Week
Chapter-15: Improvement in Food Resources	Winter Break	 Chapter-15 Manure and fertilizers Irrigation Cropping patterns Crop protection- pests and weeds Storage of grains. 	 Animal husbandry Cattle farming Cattle feed Indigenous variety and exotic variety. Poultry farming. 	 Cross breeding Egg and broiler production Poultry feed and management. Fish production Inland fisheries Bee keeping Discussion of NCERT Exercise Question.
Practical		of practical based Questions ams for Subject enrichment activity		•
Learning Objectives	 differ explai explai explai know differ differ under explai under explai correi 	entiate between manure and fertilize in ways for crop variety improvement in the cropping patterns in the importance of grain storage the meaning of animal husbandary entiate between indigenous and exot entiate between roughage and concerstand the concept of poultry farming in the food requirement of poultry and restand the concept of composite fish of in the types of bees	ic variety of animals ntrate imals	
Expected Learning Outcomes	differinterpunderexplainunder	the knowledge of manure and fertilizentiate between irrigation and waterioret the cropping patterns in a field restand importance of crop maintainantin organic system plans, plant pests at restand the importance of pesticides at in the importance of animal farming	ing nce nd their control	

	 understand the importance of poultry explain hybridization and its advantages differentiate between capture fishing and fish culturing analyse types of fishing environment and their existence interpret utility of honey
Teaching aids	Smart Board Content, Pictures, Videos
Assessment/ Activity	 Notebook assessment Subject Enrichment Activity

MONTH: FEBRUARY

Content/Topic	1 st Week	2 nd Week	3 rd Week	4 th Week		
Revision	Revision	Final Exams	Final Exams			
Final Exams						
Practical	• Revision	Revision				
Learning Objectives	It will enable the students to:					
	Recall and remember all t	he concepts				
Expected Learning Outcomes	Students would be able to:					
	Recall and remember all t	he concepts				
Teaching aids	Class Board, Smart Board Content, Question Bank					
Assessment/ Activity	Final Exam					

SUBJECT:- Social Science

Unit Number	Unit Name	Marks
Ī	India and the Contemporary World – I	20
II	Contemporary India – I	20
III	Democratic Politics	15
IV	Economics	15
V	Internal assessment	30
	Total	70 Marks

44

Month	Text book(part)	Content/Chapter	Learning outcomes
April	India and the Contemporary World –	Ch-1. The French Revolution: • French Society During the Late Eighteenth	Familiarize with the names of people involved, the different types of ideas that inspired the revolution,

	I(History) Contemporary India – I(Geography)	Century The Outbreak of the RevolutionFran ce Abolishes Monarchy and Becomes a Republic Did Women have a Revolution? The Abolition of SlaveryThe Revolution and Everyday Life	the wider forces that shaped it. Know the use of written, oral and visual material to recover the history of revolutions.
		Ch-1 .India Size and Location India and the World India's Neighbours	Identify the location of India in the Indian subcontinent.
June	Democratic Politics(Civics)	Ch.1: What is Democracy? • Why Democracy? • What is Democracy?, • Features of Democracy, • Why Democracy?, • Broader Meaning of Democracy	Develop conceptual skills of defining democracy. Understand how different historical processes and forces have promoted democracy. Develop a sophisticated defense of democracy against common prejudices. Develop a historical sense of the choice and nature of democracy in India.
June	Economics Contemporary India – I(Geography)	Ch.1: The Story of Village Palampur Overview, Organization of production Farming in Palampur Non-farm activities of Palampur. Ch.2: Physical Features of India: Major Physiographic Divisions- The Himalayan Mountains, the Northern Plains, The Peninsular	Familiarize with basic economic concepts through an imaginary story of a village. 45 Understand the major landform features and the underlying geological structure; their association with various rocks and minerals as well as nature of soil types.

	Democratic Politics(Civics)	Plateau, The Indian Desert, The Island Ch-2 Constitutional Design: Why do we need a Constitution? Making of the Indian Constitution Guiding Values of the Indian Constitution Constitution	Understand the process of Constitution making. Develop respect for the Constitution and appreciation for Constitutional values. Recognize the Constitution as a dynamic and living document.
August	India and the Contemporary World – I(History)	Ch-2 Socialism in Europe and the Russian Revolution: • The Age of Social Change, • The Russian Revolution, • The February Revolution in Petrograd, • What Changed after October?, • The Global Influence of the Russian Revolution and the USSR	Explore the history of socialism through the study of Russian Revolution. Familiarize with the different types of ideas that inspired the revolution,
	Economics	Ch.2: People as Resource: Overview, Economic activities by men and women, Quality of Population, Unemployment	Understand the demographic concepts. 46 Understand how population can be as asset or a liability for the nation.
September	India and the Contemporary World –	Ch-3. Nazism and the Rise of Hitler: Birth of the Weimar Republic, Hitler's Rise to	Discuss the critical significance of Nazism in shaping the politics of the modern world. Get familiarized students

November	India and the Contemporary World – I(History)	Ch-5 Pastoralists in the Modern World • Pastoral Nomads and their Movements	Comprehend the nature of pastoral life and the change in the life of pastoralists in the modern world Identify the varying
October	Contemporary India – I(Geography)	Ch-4 Climate+Map work Concept Climatic Controls Factors influencing India's climate The Indian Monsoon Distribution of Rainfall Monsoon as a unifying bond	Identify various factors influencing the climate and explain the climatic variation of our country and its impact on the life of the people. Explain the importance and unifying role of monsoons.
	Economics	Ch.3: Poverty as a Challenge: Two typical cases of poverty, Poverty as seen by Social Scientists, Poverty Estimates, Vulnerable Groups, Interstate Disparities, Global Poverty Scenario, Causes of Poverty, Antipoverty measures, The Challenges	challenge. Identify vulnerable group and interstate disparities. Appreciate the initiatives of the government to alleviate poverty.
	I(History) Contemporary India – I(Geography)	Power, The Nazi Worldview, Youth in Nazi Germany, Ordinary People and the Crimes Against Humanity Ch-3. Drainage	with the speeches and writings of Nazi leaders. Identify the river systems of the country. Understand poverty as a

		 Colonial Rule and Pastoral Life Pastoralism in Africa 	patterns of development within pastoral societies. Understand the impact of colonialism on pastoralists.
	Democratic Politics(Civics)	 Ch-3. Electoral Politics: Why Elections? What is our System of Elections? What makes elections in India democratic? 	Understand representative democracy via competitive party politics. Familiarize with Indian electoral system. Reason out for the adoption of the present Indian Electoral System. Develop an appreciation of citizen's increased participation in electoral politics. Recognize the significance of the Election Commission.
	Contemporary India – I(Geography)	Ch-5. Natural Vegetation and Wild Life: • Factors affecting Vegetation • Vegetation types • Wild Life • Conservation	Explain the nature of diverse flora and fauna as well as their distribution. Develop concern about the need to protect the biodiversity of our country.
December	Democratic politics-I(Civics)	Ch-4 Working of Institutions: How is the major policy decision taken? Parliament & Political Executive Judiciary	Get an overview of central governmental structures. Identify the role of Parliament and its procedures. Distinguish between political and permanent executive authorities and functions. Understand the parliamentary system of

	Economics	Ch-4 Food Security in India	the executive's accountability to the legislature. Understand the working of Indian Judiciary. Understand the concept of food security. Appreciate and analyse the role of government in ensuring food supply
		 Overview What is Food Security? Why Food Security? Who are food insecure? Food Security in India What is Buffer Stock? What is the Public Distribution System? Current Status of Public Distribution System 	
		• Size • Distribution Population	Analyse the uneven nature of population distribution and show concern about the large size of our population. Identify the different
January	Contemporary India-I (Geography)	Growth and Process of Population Change	occupations of people and explain various factors of population change. Explain various dimensions of National Population Policy.

Democratic politics I(Civics) Ch-5. Democratic Rights: Life without rights Rights in a Democracy Rights in the Indian Constitution Expanding the scope of rights. Identify and be able to comprehend the Fundamental Rights given by the Indian Constitution to its citizens.			
March Examination	February	Rights: • Life without rights Rights in a Democracy • Rights in the Indian Constitution • Expanding the scope of rights.	rights in one's life. Understand the availability /access of rights in a democratic system/government. Identify and be able to comprehend the Fundamental Rights given by the Indian Constitution to its citizens. Create awareness regarding the process of
	March	Examination	

LIST OF MAP ITEMS CLASS IX (2019-20) SUBJECT - HISTORY

50

Chapter-1: The French Revolution Outline Political Map of France

(For locating and labeling / Identification)

- Bordeaux
- Nantes
- Marseilles

• Paris

Chapter-2: Socialism in Europe and the Russian Revolution Outline Political Map of World (For locating and labeling / Identification)

- Major countries of First World War (Central Powers and Allied Powers)
- Central Powers Germany, Austria-Hungary, Turkey (Ottoman Empire)
- Allied Powers France, England, Russia, U.S.A.

Chapter-3: Nazism and Rise of Hitler Outline Political Map of World (For locating and labeling / Identification)

- Major countries of Second World War Axis Powers Germany, Italy, Japan
- Allied Powers UK, France, Former USSR, USA
- Territories under German expansion (Nazi Power) Austria, Poland, Czechoslovakia (only Slovakia shown in the map), Denmark, Lithuania, France, Belgium

SUBJECT - GEOGRAPHY (Outline Political Map of India)

Chapter -1: India-Size and Location

- India-States with Capitals,
- Tropic of Cancer,
- Standard Meridian (Location and Labelling)

Chapter -2: Physical Features of India

- Mountain Ranges: The Karakoram, The Zasker, The Shivalik, The Aravali, The Vindhya, The Satpura, Western & Eastern Ghats
- Mountain Peaks K2, Kanchan Junga, Anai Mudi
- Plateau Deccan Plateau, Chotta Nagpur Plateau, Malwa Plateau
- Coastal Plains Konkan, Malabar, Coromandal & Northern Circar (Location and Labelling)

Chapter -3: Drainage

- Rivers: (Identification only)
- The Himalayan River Systems-The Indus, The Ganges, and The Satluj
- The Peninsular rivers-The Narmada, The Tapi, The Kaveri, The Krishna, The Godavari, The Mahanadi
- Lakes: Wular, Pulicat, Sambhar, Chilika

Chapter - 4: Climate Areas receiving rainfall less than 20 cm and over 400 cm (Identification only)

Chapter - 5: Natural Vegetation and Wild Life

- Vegetation Type: Tropical Evergreen Forest, Tropical Deciduous Forest, Thorn Forest, Montane Forests and Mangrove- For identification only
- National Parks: Corbett, Kaziranga, Ranthambor, Shivpuri, Kanha, Simlipal & Manas Bird Sanctuaries: Bharatpur and Ranganthitto
- Wild Life Sanctuaries: Sariska, Mudumalai, Rajaji, Dachigam (Location and Labelling)

Chapter - 6: Population (location and labelling)

- The state having highest and lowest density of population
- The state having highest and lowest sex ratio Largest and smallest state according to area

Lesson No and Name	Practicals
1. computer fundamental	*Introduction to computer, History, types of computer, hardware ,software and its types, computer networking
2. Computer system	Digital and analog operation, Binary data, Binary number system
Operating system operating system (Linux)	Introduction, work, types ,components, Difference in linux, windows,and DOS * History of Linux, features *GUI,logging in and out, Directory, sub directory, will card characters and its use *Basic commands(create, display, copy, save files and directories) * Filteing Records * Advance commands(format, Backup, Print)
5. Introduction to office(in linux environment)	*Basic, elements, methods, advantage of word proccessing * formatting, editing, designing, printing of documer *create slide show, and make it function * modify and enter data in spreadsheet
Half Yearly Exams	
6. Programming techniques	*Introduction * algorithm * Branching looping, Modular design * Creating Unordered List * Linking Web pages
7. Basic programming in C	* Importance of C working with C, Character set, constant and veriable * Expression, console Input/Output in C * Formatted Input/ Output *Jumping and Branching statements
8. Computer Applicatiions and its advantage	computer in school, library, banking * Census and Environment
Revision	