HANSRAJ MODEL SCHOOL PUNJABI BAGH NEW DELHI -110026
ACADEMIC PLAN ENGLISH CLASS- XI 2025-26

MONTH	LESSON	LEARNING OBJECTIVES	Activities & Assignments

April - May	Posters
	
	The Portrait of a Lady
	
	A Photograph
	
	The Summer of the Beautiful White Horse
		To be able to draft Posters
		
		To sensitize the children and make them realize the importance grandparents.
		Learning the art of appreciating poetry even without a regular rhyme scheme- blank verse.
		Learning the art of holding on to ones values at the face of temptations. Enjoying life without ignoring the voice of conscience.
		
		.
			A-1 To draft 2 posters in the notebook
			  A-2 2 LAQ's
			     4 SAQ's
			  A-3 2 RTC's
			     2 SAQ's
			  A-4 2LAQ's
			     4LAQ's
			Activity- To gather information regarding Armenian tribe.

JULY	The Laburnum Top.
	
	We're Not Afraid to Die………… if We Can be Together
	
	The Address
	
	Discovering Tut- The Saga Continues.
		Learning the art of appreciating and enjoying nature poetry.
		Highlighting and imbibing perseverance and resilience to face tough times. Keeping faith in one's optimism, bravery and grit.
		
		To develop the ability to frame posters, with catchy heading, content, and pictures
		
		To understand the plight of the victims of war. Highlighting the importance of detachment and valuing human beings and relationships over material aspects.
		Understanding Egyptian history. Mystery behind king Tut's untimely death- when, why and how.
			A-5 2 RTCs
			     2 SAQs
			A-6 2 LAQ's
			     4 SAQ's
			
			 A-7 2 RTC's
			     2 SAQ's
			A-8 2 posters to be drafted on the blackboard and 2 to be done for HW.
			Activity- A War movie can be shown like-
			       Pearl Harbour.
			Documentary on Tut to be shown along with a PPT.
			A- 9 2 LAQs
			     4 SAQs

AUGUST	Advertisement		

		To develop the ability to organize notes in proper format for future reference. Use of abbreviations.	A-10 A handout with the passage to be given, notes and summary to be attempted in class.
	Note Making		A-11 One more passage as practice assignment.
	Debate and Speech writing.	Developing the art of writing long passages on a given topics.	A-12 2 Debates 2 speech writing to be done.
	Comprehension	To make them understand the correct usage of grammar	A-13 2 passages each of editing/omission/reordering of words and sentences
	Grammar		
September	ALS		
	Revision for Half yearly exams.		
October	Father to Son	Drifting apart a universal phenomenon. Lack of mutual understanding due to generation gap.	A-14 2 RTC's 2 SAQ's
	Childhood	Changing perceptions of a child – Rationality, understanding the hypocrisy of adults, developing Individuality.	A-15 2 RTC's 2 SAQ's
	The Voice of the Rain.	Parallel and similarity drawn between rain and music and water-cycle.	A-16 2 RTC's 2 SAQs
November	Mother's Day	Importance of Mother. She should not be taken for granted, she as a pillar of strength.	A-17 2 LAQ's 4 SAQ's
	Birth	Never say die attitude of a doctor. Trying ones best.	A-18 2 LAQs 4 SAQs
	The Adventure	Understanding the concept of parallel worlds.	A-19 2LAQs 4 SAQs

December			
	Silk Road.	Appreciating an adventure journey – a pilgrimage.	A- 20 2 LAQ's 2 SAQ's
	The Tale of Melon city	The blame game is a part of our political structure as well. Law, if thoughtlessly implemented, can spell disasters.	A-21 2 RTC's 4 SAQ's
	ALS	Completion of the Project Portfolio	
January	Revision for Annual Exams.		

HANSRAJ MODEL SCHOOL

PUNJABI BAGH,NEW DELHI

ACADEMIC PLAN

SESSION :2025-2026

SUBJECT -PSYCHOLOGY

CLASS :11

MONTH	TOPIC/SUBTOPICS	LEARNING INTENTIONS	ACTIVITIES	ASSIGNMENTS
April-May	Chapter-6 Learning	1.Students will be able to describe the concept of nature of learning. 2.They will be able to explain various approaches to learning. 3.Study of operant and classical conditioning and use in daily life.	Poster will be prepared for diagnosing learning disabilities.(Art integration)	Assignments will be given to conduct verbal learning case studies.
July	Chapter-1 What is psychology?	1.The students will understand the nature of different schools of psychology. 2.They will learn about the branches of psychology. 3.They will develop concepts of various disciplines and relation to psychology.	1.Presentation will be shown on psychology and its scope. 2.Students will prepare posters on the Scope of psychology.(Art integration)	Career in psychology after studying science, commerce and humanities will be asked to demonstrate in a pamphlet.

August	Chapter-2 Methods of Enquiry in psychology	1.The students will learn the limitations of a psychological inquiry. 2.They will understand the skills to use the different methods. 3.They will comprehend the concept of ethical issues.	1. Class discussion & assignment sheets will be given. 2.Case study format will be introduced. 3. Students will be divided in groups to conduct activities of having funtime childhood games for which data will be recorded using different data collection methods.(Happiness curriculum)	Preparation of interview schedule and questionnaire in the class.
	Practical: To study the method of observation, interview and questionnaire .	Practical: Students will gain confidence & expertise of using the different methods of data collection.	They will conduct observation of an adolescent and record it.	
		Students will learn about reliability, validity, norms, standardization of various tests like WAT, AISS, DBDA, SCQ, RSPM.	Conduction of various psychological tests on self and case study subject for practice.	Assignments will be given to conduct the test on case profile .

September	Chapter-4 Human development	1.Students will familiarize themselves with factors and context of development. 2.The students will understand the different developmental stages. 3.They will learn about the challenges of adolescence, adulthood, and old age.	1.Students will discuss experiences of their own and their siblings. 2.Project will be made on problems of adolescents. 3.Students will participate in the quiz.	Conduction of interview to study concept of psychology.

	Practical: Introduction to experimental psychology.	Practical: What is Experimental psychology, different types of tests with their examples.	Record to be maintained in file.	
October	Chapter-5 Sensory, Attentional and Perceptual Processes.	1. The students will learn the limitation of perception and focus on attention and factors affecting it.	Class discussion on various issues and role play will be organized for acculturative strategies.	Conduction of various psychological tests on self and case study subject for practice.
November	Chapter-7 Human memory	1.Students will be able to understand the nature of memory. 2.They will be able to study the levels of processing, the different models of memory.	Group discussion on the model of memory will be conducted (forward and backward recall).	

			They will conduct tests on themselves and their subjects.	They will conduct tests on themselves and their subjects.
	Practical: MEMORY To study the short term memory of the subject.	Practical: Students will gain confidence & expertise of conducting the practical on memory.		
	LEARNING To study the learning capacity of an individual.	Practical: Students will gain confidence & expertise of conducting the practical on learning.	5.Mnemonics strategies will be presented by students in an artistic manner.(Art integration)	

December	Chapter -8 Thinking	1.Students will familiarize themselves with factors and meaning of thinking, creative thinking. 2.Students will understand the barriers to creativity.	Creative thinking activity will be done in class.	Assignments will be given having case based questions.
January	Chapter- 9 Motivation and Emotion	1.Students will be able to understand and describe the concept of motivation and emotion. 2.Students will learn the various theories on motivation and emotion.	Role play activity will be conducted on different theories of emotion.	Discussion on how to improve on positive emotions and record the same.

HANSRAJ MODEL SCHOOL

PUNJABI BAGH, NEW DELHI

Academic Plan

SESSION: 2025-2026

SUBJECT: Mathematics

CLASS: XI

MONTH	TOPIC/ SUBTOPIC	LEARNING INTENTIONS	ASSIGNMENTS	ACTIVITY
APRIL MAY	**Bridging the gap** **SETS** I. Sets and their representation II. Empty set , finite and infinite set , equal sets III. Subsets , subsets of a sets of real numbers IV. universal sets V. Union and Intersection of sets VI. Venn Diagram VII. Difference of sets VIII. Complement of a set IX. Practical problems on union and intersection	Revision of concepts learnt in previous class The student will be able to ● Define Sets and their representation ● Define Empty set , finite and infinite set , equal sets ● Find Subsets , subsets of a sets of real numbers ● Understand universal sets ● Find Union and Intersection of sets	Assignment on Sets	**Activity 1**-To verify the distributive law

		● Find Difference of sets , complement of set. Students will be able to use the language , symbols and notation of set theory . The student will be able to ● Understand the meaning of the cartesian product of two sets. ● Find A X B and B X A, if Set A and B are given or vice versa. ● Define a relation ● Find domain, range, codomain and draw an arrow diagram of a given relation. ● Find the domain and range of a given real function. ● Define naming function ● Write domain , range and draw graph of naming functions. ● Find f + g, f - g, f g and f/g for two given functions f and g. ● Find composition of functions	Assignment on Relations and functions	**Activity 2**-To identify a relation and a function **Art Integration :** Making graph of greatest integer function using matchsticks

	RELATION AND FUNCTION
	  I. Ordered pairs
	  II. Cartesian product of two sets , number of elements in this Cartesian product of two sets
	 III. Definition of relation , Arrow diagrams
	 IV. Domain , co- domain and range of a relation
	  V. Function , real valued function, domain and range of a function
	 VI. Some special functions
	VII. Sum , difference , product and quotient of two real functions.
	VIII. Composition of functions			

		Students will develop abstract critical and logical thinking.		

JULY	**TRIGONOMETRIC FUNCTIONS** I. Positive and negative angles II. Measuring angles in radians and degrees and conversion from one measure to another III. Definition of trigonometric functions with the help of unit circle IV. Signs of trigonometric functions and their graphs V. Various formula of trigonometry and their applications VI. General solution of Trigonometric equations	The student will ● understand positive and negative angles ● convert angle from one measure to another ● Define trigonometric functions with the help of unit circle ● understand signs of trigonometric functions and their graphs ● apply various formula of trigonometry in questions. ● Find General solution of Trigonometric equations Students will develop abstract critical thinking.	Assignment on Trigonometric functions	**Activity 3**-To plot the graph of sin x and sin 2x on the same Cartesian plane
	COMPLEX NUMBERS Introduction to i and meaning of complex number ● Algebraic properties of complex numbers ● Argand plane ● Polar representation of complex numbers ● Solution of quadratic equations in complex number system	The student will ● Appreciate concept of i ● know meaning of complex number ● Know Algebraic properties of complex numbers ● Draw Argand plane ● Write Polar representation of given complex number ● Find Solution of quadratic equations in complex number system	Assignment on Complex Numbers	

AUGUST	**Linear Inequalities** ● Algebraic solutions of linear inequalities in one variable and their representation on the number line ● Word problems ● Graphical solution of linear inequalities in two variables ● Graphical solution of system of linear inequalities in two variables	Students will develop abstract and critical thinking. The student will ● understand linear inequalities. ● plot solution of linear inequalities on the number line. ● apply knowledge of linear inequalities in solving word problems. ● Find Graphical solution of linear inequalities in two variables The students will be able to understand the method of solving linear inequalities	Assignment on Linear inequality	
	BINOMIAL THEOREM I. Statement and proof of the binomial theorem for positive integral index II. Pascal's triangle III. General and middle term in binomial expansion	The student will be able to ● Understand the meaning of binomial. ● Construct Pascal's Triangle ● Expand $(a + b)^n$ ● Apply binomial expansion for calculations ● Find General and middle term in binomial expansion Students will learn to apply general rules correctly to solve problems.	Assignment on Binomial Theorem	**Activity 5**-To construct a Pascal triangle and to write Binomial expansion for a given positive integral expansion using matchsticks

SEPTEMBER	**Half Yearly Examinations**			

OCTOBER	**PERMUTATION AND COMBINATION**
	  I. Fundamental principle of counting
	  II. Factorial notation
	  III. Meaning of permutation and combinations
	  IV. Simple applications .
		The student will
		● understand Fundamental principle of counting
		● apply the Fundamental principle of counting to solve real life problems.
		● understand factorial notation
		● understand difference of permutations and combinations and apply them to solve word problems.
		Students will develop abstract critical and logical thinking and become confident in using mathematics to analysis , solve problems in real life situations.
			Assignment on permutations and combinations	**Activity 4-** To find the number of ways in which three cards can be selected from given five cards

	SEQUENCE AND SERIES
	
	  I. Geometric Progression
	  II. General term of a GP
	  III. Sum of first n terms of a GP
	  IV. Sum of infinite GP
	  V. Geometric Mean
	  VI. Relation between A.M. and G.M.
	  VII. Sum of special sequences of natural numbers
		The student will
		● understand Geometric Progression
		● apply the formula of a_n and S_n to solve problems.
		● understand GM, AM and their relationship
			Assignment on Sequences and Series	**Activity 6**- To demonstrate that the Arithmetic mean of two different positive numbers is always greater than Geometric mean

		Students will learn to recognise patterns, describe pattern as relationship or general rules.		
NOVEMBER	**STRAIGHT LINES** I. Slope of line and angle between two lines II. Various forms of equations of a line; parallel to axis , point –slope form , slope intercept form ,normal form III. General equation of a line IV. Distance of a point from a line	The student will ● define slope of a line ● find angle between two lines ● understand various forms of a line. ● find the distance of a point from a line. Students will learn to use different forms of mathematical formulae for a straight line	Assignment on Straight lines	

	THREE DIMENSIONAL GEOMETRY
	  I. Co – ordinate axes and coordinate planes in three dimensions
	  II. Coordinates of a point in space
	  III. Distance between two points.
	  IV. Section formula
		The student will
		  ● understand eight octants
		  ● find distance of two points in space.
		  ● Use Section formula
		Students will be able to know about three dimension plane and its properties.
			Assignment on Three Dimensional Geometry	**Activity 7 -** To explain the concept of octants by three mutually perpendicular planes in space.
				
				Art Integration: Creating Three dimensional plane to show Octants

DECEMBER	**CONIC SECTION**
	  I. Sections of a cone - circle , ellipse, parabola , hyperbola
	  II. Standard equations of parabola , circle , ellipse and hyperbola.
		The student will
		  ● understand sections of cone
		  ● find standard equations of all four sections with given parameters.
		  ● identify the conic section from given equation
		
		Students will be able to develop abstract critical and logical thinking.
			Assignment on Conic Sections	**Activity 8** -To construct an ellipse when two fixed poin are given using thread(**Art Integration)**

	PROBABILITY
	  I. Random experiment
	  II. Outcomes , Sample space , events , occurrence of events
	  III. Exhaustive events
	  IV. Mutually exclusive events
	  V. Axiomatic approach to probability , connection with set theory
		The student will
		
		  ● understand random experiments, Outcomes and sample space
			Assignment on Probability	**Activity 9** - Write the samp space when a die is tossed twice, thrice,__ _ _ _.

	VI. Probability of not , and or events.	- define types of events - apply algebra of events - find probability of an event Students will learn to develop mathematical curiosity and use inductive and deductive reasoning while solving problems ,	

JANUARY	**STATISTICS**
	  I. **M**easure of dispersion
	  II. Mean deviation about the mean and median
	 III. Variance
	 IV. Standard deviation
		The student will - understand grouped and ungrouped data. - find mean and median of grouped and ungrouped data. - find the mean deviation about mean and about median. - find variance and standard deviation. Students will learn mathematical investigation to apply mathematical	Assignment of Statistics

		knowledge, analyse information in solving problems.		

	LIMITS AND DERIVATIVES
	  I. Derivative introduced as rate of change of functions and geometrically
	  II. Intuitive idea of limit
	  III. Limits of polynomials and rational functions , trigonometric , exponential and logarithmic functions
	  IV. Derivative using first principle
	  V. Derivative of sum , difference , product and quotient of functions
	  VI. Derivatives of polynomial and trigonometric function.
	  VII. Chain rule
		The student will
		● understand algebra of limits
		● evaluate Limits of polynomials and rational functions
		● evaluate Limits of Trigonometric, Logarithmic and Exponential Functions
		● apply algebra of derivative of functions
		● find derivative of the functions from first principle.
		
		Students will be able to select and apply general rules correctly to solve problems in real life context.
			Assignment on Limits and derivatives.	**Activity 10 -** To find analytically *limit of a* function

HANSRAJ MODEL SCHOOL

PUNJABI BAGH, NEW DELHI

CURRICULUM

SESSION: 2025-2026

CLASS XI

SUBJECT: ACCOUNTANCY

MONTH	TOPIC/SUB-TOPICS	LEARNING INTENTIONS	ASSIGNMENT/ACTIVITY
APRIL/MAY	Introduction to Accounting Basic Accounting Terms Accounting Equation	Students shall be able to understand meaning of accounting and its objectives, users of accounting information, limitations of accounting and attributes of accounting. They will also understand various terms, meaning of Accounting Equation, effect of various transactions on accounting equation.	Accounting ladder showing accounting process. Project on source documents
JULY	Theory base of accounting Recording of Transactions	Students shall understand various accounting principles & concepts, cash and accrual basis of accounting. Meaning of debit and credit, recording of journal entries, format of ledger and posting entries. Students shall be able to understand preparation of cash book. Petty cash book,	HOTS Qs on concepts Students may be asked to visit any commercial bank and understand the working of banks.

AUGUST	Recording of Transactions (contd...) Bank Reconciliation Statement Rectification Of Errors	Subsidiary books - Purchase book, Sales book, Returns book, Trial Balance and its objectives Meaning and procedure of preparing BRS Students shall understand various types of errors and their rectification, suspense account	Showing of Pass Book to clear the concept of debit and credit. Qs from NCERT
SEPTEMBER	REVISION & HALF YEARLY EXAMS	HALF YEARLY EXAMS	
OCTOBER	Depreciation, Provisions and Reserves	Meaning and causes of depreciation, methods of depreciation, provision for Depreciation A/C, Asset Disposal A/C, Meaning and types of reserves, importance of provisions	Qs from T S Grewal
NOVEMBER	Financial statements of Sole Proprietors	Meaning and preparation of Trading A/c, P& L A/C and Balance Sheet. Difference b/w Operating profit and Net profit, Concept of Revenue Expenditure and Capital Expenditure	Project Work
DECEMBER	Financial statements of Sole Proprietors (with adjustments)	Preparation of Trading A/c, Profit & Loss A/C and Balance Sheet incorporating various adjustments like outstanding and prepaid expenses, depreciation, interest on capital and loan, bad debts etc.	Discussion on True and Fair Representation of Accounts, Honest accounting practices
JANUARY	Accounts from Incomplete Records	Students shall develop the skill of computation of profit/loss using Statement of Affairs method	Qs from T S Grewal

HANSRAJ MODEL SCHOOL

PUNJABI BAGH, NEW DELHI

ACADEMIC PLAN

SESSION: 2025-26

SUBJECT-BIOLOGY

CLASS-XI

MONTH	TOPIC/ SUB-TOPIC	LEARNING INTENSIONS	ACTIVITIES	ASSIGNMENTS
APRIL	**8.The Unit of Life- Cell**	1.The students will be able to explain Cell Theory 2.They will be able to distinguish between prokaryotes And eukaryotes, Gram positive and Gram negative bacteria. 3.Students will be able to draw labelled diagrams of various cell organelles and explain their structure and functions.	1.Draw various diagrams like – typical plant cell,animal cell,Fluid Mosaic model and Various cell organelles. 2.D.raw E.M of flagella & centriole. 3. Draw different types of chromosomes.	1. All the Q-A of text will be discussed. 2.Assignment No-8
MAY	**10.Cell Cycle & Cell Division**	1.Students will be able to describe various stages of Cell cycle. 2.They will be able to describe ,draw & distinguish b/w them 3. They will be able to explain various stages of mitosis & distinguish b/w them.	1.. Labelled diagrams of various stages of Mitosis and Meiosis. 2.Slides of Mitosis(to be observed)	1.Discussion of Q-A 2.Assignment No-10

		4.Students will be able to describe various stages of Meiosis and their significance. 5.They will be able to understand the importance of Cell division of different types.		
JULY	**17. Breathing and exchange of gases.**	1. Students will be able to explain various steps of respiration and mechanism of breathing. 2. They will be able to explain various respiratory volumes and capacities and understand their importance. 3. They will be able to explain transport of gases and various factors which impact them. 4. They will be able to describe regulation of respiration and disorders associated with the respiratory system.	Effect of pollution on various parts of respiratory systems. Post covid effects on respiratory system.	1.Discussion of text book questions. 2.Assignment No-17
	3. Plant Kingdom.	1. Students will be able to enlist various systems of classification along with main features of each category. 2. Students will be able to explain various classes of algae, main groups of bryophytes, pteridophytes, gymnosperms & angiosperms. 3.They will be able to distinguish between Various types of life cycles.	1 Diagram of the life cycle of an angiosperm. 2. Life cycle patterns of haplontic ,diplontic & haplo-diplontic. 3. Draw plant specimen in file 4.Observe plants in your neighborhood and note down the examples of plants that lie in various groups.	1.Assignment No.-3 2.Discussion of text book questions.

	2. Biological Classification.	1. Students will be able to name various taxonomists & explain their contribution. 2. Students will be able to distinguish between various groups.	1 Flow chart of five kingdom classification as proposed by R.H.Whittaker (1969) along with salient features of each group. 2. Diagrams of representatives of various groups.	1.Assignment No-2 2Objective assignment to be discussed.
AUGUST	13. Photosynthesis in Higher Plants.	1.Students will be able to define & briefly explain the history of development of this concept. 2. They will be able to explain various types of reactions & their mechanisms. 3.They will be able to compare C3 &C4 plants 4. They will be able to describe photorespiration.	Effect of changing environment on photosynthetic capacity of plant.	1. Discussion of Qs of text. 2.Assignment No-13
	14. Respiration in Plants.	1.Students will be able to explain various steps and describe their mechanism. 2.They will be able to describe and justify amphibolic Pathway.	1.Activity to study respiration in plant parts	.1. Discussion of Qs of text. 2.Assignment No-14
	5. Morphology of Flowering Plants.	1. Students will be able to explain various modifications of root, stem & leaves. 2. Inflorescence-Students will be able to identify & explain different types of inflorescence.	1. Floral diagrams of various families. 2.Observe monocot and dicot leaves and note down the differences.	Assignment No-5

		3. They will be able to describe various families with the help of floral diagrams. 4.Students will be able to explain different types of fruits & seeds.		
	1 Diversity in the Living World	1. The students will be able to explain various features of living beings. 2. Students will be able to define various terms pertaining to taxonomic categories and their usage. 3. Students will be able to enlist and explain various taxonomic aids.	Use the terms in daily routine to familarise with them	1. Questions of NCERT will be discussed. Assignment No-1
SEPTEMBER		**HALF YEARLY EXAMINATION - 2025-26**		
OCTOBER	**4.Animal Kingdom**	1.Students will be able to explain basis of Classification & explain various terms associated with it.	1. Chart of animal kingdom along with salient features of each group. Draw animal specimen in file	Assignment No-4
	9. Biomolecules.	1. Students will be able to describe different constituents of the cell. 2.They will be able to describe different types of biomolecules-their structure & functions 3.They will be able to classify & describe various types	1. Structure of amino acid & Zwitterion.	Assignment No-9

		Of enzymes.		
	18. Body fluids and circulation	1. Students will be able to explain various components of blood, their function and different blood groups. 2. They will be able to explain the structure and function of the heart. 3. They will be able to describe cardiac cycle, E.C.G, double circulation, regulation and disorders of circulatory system.	1. Flow chart of various components of blood along with their functions. 2. Diagrams of sectional view of heart, cardiac cycle and double circulation. 3.Change in composition of blood due to various diseases.	1.. Questions of text. Assignment No-18
NOVEM BER	**7. Structural Organisation in Animals.**	1.Students will be able to describe various types of animal tissues and distinguish between them.	Practice diagrams of various systems of frog.	Assignment No-7
	15. Plant growth and development.	1. Students will be able to explain various aspects of growth, growth regulators and their biological importance. 2. They will be able to explain photoperiodism, long day plants, short day plants and day neutral plants with examples. 3. They will be able to explain vernalisation.	Effect of ethylene and cytokinin on fruit ripening and other physiological activities of plant.	Assignment No-15
	20. Locomotion and movement.	1. Students will be able to name and explain different types of muscles, their structure and functions.	1. Recognition of various types of bones with the help of a skeleton.	Assignment No-20

		2. They will be able to explain the mechanism of muscle contraction. 3. They will be able to explain the axial and appendicular skeleton and various types of joints with examples.		
DECEMBER	**6. Anatomy of Flowering Plants.**	1.Students will be able to explain and draw different types of tissues 2. They will be able to draw & distinguish between different types of vascular bundles. 3. They will be able to compare anatomical details of dicot root, monocot root, dicot stem, monocot stem, dicot leaf &, monocot leaf. 4.Students will be able to explain secondary Growth in dicot root & dicot stem.	1.Flow chart of different types of plant tissues along with diagrams. 2. Diagrams of various types of vascular bundles. Diagrams of plant tissues in file	Assignment No-6
	19. Excretory products and their elimination	1. Students will be able to explain – ammonotelic, ureotelic and uricotelic animals. 2. They will be able to explain the structure and function of the human excretory system.	1.. Diagrams of excretory system, nephron and counter current mechanism. 2.Do research work on dialysis	1. Questions of text. 2.Assignment No-19
	21. Neural control and coordination	1. Students will be able to explain the structure of the brain, neuron and impulse conduction.	1. Diagrams of neuron, synapse and brain.	Assignment No-21

		2. They will be able to explain the reflex arc with the help of a diagram. 3. Students will be able to explain the structures and functioning of the eye and ear.	2.Do research work on various parts of brain.	
JANUARY	**22. Chemical coordination and integration**	1. Students will be able to explain the location and functioning of endocrine glands. 2. They will be able to enlist various disorders associated with hormonal imbalance. 3. They will be able to describe the mechanism of hormone action.	1. Table showing names, functions and disorders of endocrine glands. 2. Diagrammatic representation of mechanism of action of protein and steroid hormones.	Assignment No-22

HANSRAJ MODEL SCHOOL

PUNJABI BAGH,NEW DELHI

ACADEMIC PLAN

SESSION:2025-26

SUBJECT: BUSINESS STUDIES

CLASS XI

MONTH	TOPIC/SUB TOPIC	LEARNING INTENTIONS After going through this unit, the student/ learner would be able to: To acquaint the History of Trade and Commerce in India	ACTIVITIES/ASSIGNMENTS
April &May	Nature & Purpose of Business	- Understand the meaning of business with special reference to economic and non-economic activities. - Discuss the characteristics of business - Understand the concept of business, profession and employment. - Differentiate between business, profession and employment - Appreciate the economic and social objectives of business - Examine the role of profit in business - Understand the broad categories of business activities- industry and commerce - Discuss the meaning of commerce, trade and auxiliaries to trade. - Discuss the meaning of different types of trade and auxiliaries to trade. - Understand the concept of risk as a special characteristic of business - Examine the nature and causes of business risks.	Assignment 1 mind map

Month	Chapter	Learning Objectives	Activity
May	Forms Of Business Organization	● List the different forms of business organizations and understand their meaning. ● Identify and explain the concept, merits and limitations of Sole Proprietorship. ● Identify and explain the concept, merits and limitations of a Partnership firm. ● Understand the types of partnership on the basis of duration and on the basis of liability. ● Understand the need for registration of a partnership firm Discuss types of partners – active, sleeping, secret, nominal and partner by estoppel. ● Understand the concept of Hindu Undivided Family Business ● Identify & explain the concept, merits , limitations and types of Cooperative Societies ● Identify and explain the concept, merits and limitations of private ,one person and public companies ● Highlight the stages in the formation of a company. ● Discuss the important documents used in the various stages in the formation of a company. ● Explain the factors that influence the choice of a suitable form of business organization.	Assignment 2 Mind map and group discussion
July	Public, Private & Global Enterprise	● Develop an understanding of Public sector and private sector enterprises ● Identify and explain the features, merits and limitations of different forms of public sector enterprises ● Develop an understanding of global enterprises, public private partnership by studying their meaning and features.	Assingment 3 Role play Assignment 4 PPT
August	Business Service	● Understand the meaning and types of business services. ● Discuss the meaning and types of Business service Banking -its types ,services etc ● Recall the concept of insurance its various principles,types ● Understand the utility of different telecom services	Assignment 5 Role play
September		Half Yearly Examination followed by chap 5 ● Distinguish between traditional and e -business ● Give the meaning ,scope ,benefits of e-business	

september	Emerging modes of business

Social Responsibility & Business Ethics | • State the concept of social responsibility,cases for social responsibility, responsibility towards different interest groups
• Appreciate the role of business in environment protection. State the concept of business ethics and its various elements | assignment 6 mind map |
| October | Sources Of Business Finance | • State the meaning, nature and importance of business finance.
• Classify the various sources of funds into owners' funds.
• State the meaning of owners' funds.
• State the meaning of borrowed funds.
• Discuss the concept of debentures, bonds, loans from financial institutions and commercial banks, Trade credit and inter corporate deposits.
• Distinguish between owners' funds and borrowed funds. Understand the concept of Entrepreneurship Development (ED), Intellectual Property Rights | case studies of different start ups

assignment 7 group discussion |
| November | Small Business | • Understand the meaning of small business
• Discuss the role of small business in India
• Appreciate the various Government schemes and agencies for development of small scale industries. NSIC and DIC with special reference to rural, backward area. | Assignment 8 role play |
| | Internal Trade | • State the meaning and types of internal trade.
• Appreciate the services of wholesalers and retailers.
• Explain the different types of retail trade.
• Highlight the distinctive features of departmental stores, chain stores and mail order business.
• Understand the concept of GST | |
| | | • Understand the concept of international trade.
• Describe the scope of international trade to the nation and business firms.
• State the meaning and objectives of export trade.
• Explain the important steps involved in executing export trade. | |

| December | International Business | State the meaning and objectives of import trade. Discuss the important steps involved in executing import trade. Develop an understanding of the various documents used in international trade. Identify the specimen of the various documents used in international trade. Highlight the importance of the documents needed in connection with international trade transactions State the meaning of World Trade Organization. Discuss the objectives of World Trade Organization in promoting international trade. | |

HANSRAJ MODEL SCHOOL
PUNJABI BAGH,NEW DELHI
CURRICULUM
SESSION: 2025-26
SUBJECT : CHEMISTRY
CLASS : XI

MONTH	TOPICS/ SUBTOPICS	LEARNING INTENTIONS	ACTIVITIES	ASSIGNMENTS
				(Quizzes made online for various topics will be shared from time to time for practising MCQs)
April	Basic concepts of Chemistry	After studying this unit, students will be able to ● appreciate the contribution of India in the development of chemistry understand the role of chemistry in different spheres of life; ● classify different substances into elements, compounds and mixtures; use scientific notations and determine significant figures; ● explain various laws of chemical combination; ● appreciate significance of atomic mass, average atomic mass, molecular mass and formula mass; ● describe the terms – mole and molar mass;	Students will be asked to discuss activities based on everyday life where stoichiometry is used.	Intext and a few exercise questions from NCERT textbook depending upon the topic discussed in the class ,will be given to students as an assignment.

		- calculate the mass per cent of component elements constituting a compound; - determine empirical formula and molecular formula for a compound from the given experimental data; and - perform the stoichiometric calculations.		
May	Structure of atom	After studying this unit, students will be able to - know about the discovery of electron, proton and neutron and their characteristics; - describe Thomson, Rutherford and Bohr atomic models; - understand the important features of the quantum mechanical model of atom; - understand nature of electromagnetic radiation and Planck's quantum theory; - explain the photoelectric effect and describe features of atomic spectra; - state the de Broglie relation and Heisenberg uncertainty principle; - define an atomic orbital in terms of quantum numbers; - state aufbau principle, Pauli exclusion principle and Hund's rule of maximum multiplicity; and write the electronic configurations of atoms	(Discovery of nucleus will be discussed and students will be asked to make a **dart game** to associate it with the concept.	Questions based on Discoveries, Classification ,reasoning, neumericals etc will be given from NCERT exercise.

| July | Classification of Elements. | After studying this unit, students will be able to
● appreciate how the concept of grouping elements in accordance to their properties led to the development of Periodic Table.
● understand the Periodic Law;
● understand the significance of atomic number and electronic configuration as the basis for periodic classification;
● name the elements with Z >100 according to IUPAC nomenclature;
● classify elements into s, p, d, f blocks and learn their main characteristics;
● recognise the periodic trends in physical and chemical properties of elements;
● compare the reactivity of elements and correlate it with their occurrence in nature;
● explain the relationship between ionization enthalpy and metallic character;
● use scientific vocabulary appropriately to communicate ideas related to certain important properties of atoms e.g., atomic/ionic radii, ionization enthalpy, electron gain enthalpy, electronegativity, valence of elements. | An **art integrated activity** e.g.crossword puzzle on the elements of periodic table, story to explain discovery/classification of elements,comic strips to explain anomalies in the classification would be taken up by students. | Intext and a few exercise questions from NCERT textbook depending upon the topic discussed in the class ,will be given to students as an assignment. |
| | Chemical Bonding | After studying this unit, students will be able to | | |

		● understand Kössel-Lewis approach to chemical bonding; ● explain the octet rule and its limitations, draw Lewis structures of simple molecules; ● explain the formation of different types of bonds; ● describe the VSEPR theory and predict the geometry of simple molecules; ● explain the valence bond approach for the formation of covalent bonds; ● predict the directional properties of covalent bonds;	Type of bonds would be explained using examples related to **unity in team** different players taking specific roles as per their strengths like in ionic, covalent and coordinate bonding. Students will be taught the importance of Unity .integrity,togetherness and co-operation (**DC**)	Specific NCERT textbook and exemplar questions (Apart from the ones done in class) will be given as assignment
August	Chemical Bonding (continued)	After studying this unit, students will be able to ● explain the different types of hybridisation involving s, p and d orbitals and draw shapes of simple covalent molecules; ● describe the molecular orbital theory of homonuclear diatomic molecules; ● explain the concept of hydrogen bond.	Polar bonds will be explained using a tug **of war** analogy integrating **art, sports and science**.	Students will be asked to draw MO diagrams for all the molecules and ionic species in the exercise questions.

	Redox Reactions	After studying this unit, students will be able to
		
		● identify redox reactions as a class of reactions in which oxidation and reduction reactions occur simultaneously;
		● define the terms oxidation, reduction, oxidant (oxidising agent) and reductant (reducing agent);
		● explain mechanism of redox reactions by electron transfer process;
		● use the concept of oxidation number to
		● identify oxidant and reductant in a reaction;
		● classify redox reaction into combination (synthesis), decomposition, displacement disproportionation reactions;
		● suggest a comparative order among vario reductants and oxidants;
		● balance chemical equations using
		  (i) oxidation number
		  (ii) half reaction method;
		● learn the concept of redox reactions in terms of electrode processes.
			Mind maps will be created by students to catalyse the process of remembering oxidation states.	Students will be asked to note down all the equations of redox reactions from DAV sample papers and previous years' papers to practice their balancing at home.

September	Half yearly examination			
October	Thermodynamics	After studying this unit, students will be		

| | | able to

● explain the terms : system and surroundings;
● discriminate between close, open and isolated systems;
● explain internal energy, work and heat;
● state first law of thermodynamics and express it mathematically;
● calculate energy changes as work and heat contributions in chemical systems;
● explain state functions: U, H.
● correlate ΔU and ΔH;
● measure experimentally ΔU and ΔH;
● define standard states for ΔH;
● calculate enthalpy changes for various types of reactions;
● state and apply Hess's law of constant heat summation;
● differentiate between extensive and intensive properties;
● define spontaneous and nonspontaneous processes;
● explain entropy a s a thermodynamic state function and apply it for spontaneity;
● explain Gibbs energy change (ΔG); and
● establish relationship between ΔG and spontaneity, ΔG and equilibrium constant. | Few examples of endothermic and exothermic reactions will be taken up from daily life and **picture quiz** called **Image talk** will be designed by students as an **Art integration activity**.

Students will be asked to discuss in class about a few practical uses of Equilibrium and the factors affecting it. | |

	Chemical Equilibrium	After studying this unit, students will be able to ● identify dynamic nature of equilibrium involved in physical and chemical processes; ● state the law of equilibrium; ● explain characteristics of equilibria involved in physical and chemical processes; ● write expressions for equilibrium constants; ● establish a relationship between Kp and Kc ; ● explain various factors that affect the equilibrium state of a reaction; ● classify substances as acids or bases according to Arrhenius, Bronsted-Lowry Lewis concepts; ● classify acids and bases as weak or strong terms of their ionization constants;	
November	Chemical Equilibrium (continued)	After studying this unit, students will be able to ● explain the dependence of degree of ionization on concentration of the \ electrolyte and that of the common ion; ● describe pH scale for representing hydrogen ion concentration; ● explain ionisation of water and its duel role as acid and base;	Students will be asked to make a **game** which helps in categorisation of given substances as acid,base and salt	

		• describe ionic product (Kw) and pKw for water; • appreciate use of buffer solutions; • calculate solubility product constant		
December	Organic chemistry (Some basic Principles & Techniques)	After studying this unit, students will be able to • understand reasons for tetravalence of carbon and shapes of organic molecules; • write structures of organic molecules in various ways; • classify the organic compounds; • name the compounds according to IUPAC system of nomenclature and also derive their structures from the given names; • understand the concept of organic reaction mechanism; • explain the influence of electronic displacements on structure and reactivity of organic compounds; • recognise the types of organic reactions; • learn the techniques of purification of organic compounds; • write the chemical reactions involved in the qualitative analysis of organic compounds; • understand the principles involved in quantitative analysis of organic componds	Qualitative analysis of organic compounds will be discussed showing videos followed by performing a the chemistry lab along wit analysis.	IUPAC nomenclature based questions from solved examples, Intext questions and exercise questions will be given for practice. Intext and a few exercise questions from NCERT textbook depending upon the topic discussed in the class ,will be given to students as an assignment.

| January | Hydrocarbons | After studying this unit, students will be able to

● name hydrocarbons according to IUPAC system of nomenclature;
● recognise and write structures of isomers of alkanes, alkenes, alkynes and aromatic hydrocarbons;
● learn about various methods of preparation of hydrocarbons;
● distinguish between alkanes, alkenes, alkynes and aromatic hydrocarbons on the basis of physical and chemical properties;
● draw and differentiate between various conformations of ethane;
● appreciate the role o f hydrocarbons as sources of energy and for other industrial applications;
● predict the formation of the addition products of unsymmetrical alkenes and alkynes on the basis of electronic mechanism;
● comprehend the structure of benzene, explain aromaticity and understand mechanism of electrophilic substitution reactions of benzene;
● predict the directive influence of substituents in monosubstituted benzene ring;
● learn about carcinogenicity and toxicity. | **Ball and stick models / clay models** will be used to explain shapes and geometries of organic compounds. | |

HANSRAJ MODEL SCHOOL
PUNJABI BAGH, NEW DELHI
ACADEMIC PLAN
SESSION: 2025 – 2026
SUBJECT: COMPUTER SCIENCE
CLASS: XI

MONTH	Topic/Sub-topic	Learning Intentions	Activity/Assignment
APRIL	**Unit II: Computational Thinking and Programming – 1** ● Familiarization with the basics of Python programming ● Python execution modes	**Is able to** ● Download and install Python IDLE ● Understands the use of interactive mode and Script mode	
MAY	**Unit II: Computational Thinking and Programming – 1** ● Knowledge of data types in Python ● Operators in Python	Is able to: ● Understand different data types ● Use different operators ● Use Assignment statement	● Try use of different operators and assignment statements in the interactive mode ● Theory Assignment 1 (on data types and operators in Python) ● Practical Assignment 1 (writing simple programs in Python)
JULY	**Unit II: Computational Thinking and Programming – 1** ● Developing an algorithm ● Flowchart ● Pseudo code	● Students are able to analyse a problem, develop an algorithm, and represent algorithm using flow chart and pseudo code	● Theory Assignment 2 – NCERT book Page 83 (develop an algorithm and represent using flowchart)
	Unit II: Computational Thinking and Programming – 1	● Students are able to write simple programs in Python	● Practical Assignment 1 (Contd.) ● NCERT book examples on page 105, 106

	● Input, print statements ● Types of errors		● Theory Assignment 3 (NCERT book Exercise Page 115, 116,117
	Unit II: Computational Thinking and Programming – 1 ● Conditional statements (if, if-else, if-elif)	Students are able to write simple programs using conditional statements	● Practical Assignment 2 (Programs based on conditional statement) ● Discussion of theory questions based on conditional statements
AUGUST	**Unit I: Basic Computer Organisation** ● Computer hardware, software, input, output devices, memory, ● Types of software ● Operating system	●Students understands the concept of hardware and software ● Students understands about different types of software	● Theory Assignment 4 (NCERT Book Exercise page 24,25)
	Unit II: Computational Thinking and Programming – 1 ● For loop ● While loop	●Students are able to write simple programs using looping statements	● Practical Assignment 3 (based on looping statements) ● Theory Assignment 5 (NCERT Book Exercise pages 139,140)
SEPTEMBER	REVISION HALF YEARLY EXAMS		
OCTOBER	**Unit II: Computational Thinking and Programming – 1** ● Strings in Python ● Lists in Python	● Students understands String based concept and use in program concatenation , slicing , use of inbuilt functions ● Students learn the Creation and Application of Lists, use of inbuilt functions ●Students are able to write Python scripts using concept of Strings and List	● Practical Assignment 4 (based on string operations and string functions) ● Theory Assignment 6 (NCERT book pages 187, 188) ● Practical Assignment 5 (based on Lists in Python) ● Theory Assignment 7 (NCERT book Exercise pages 204, 205)
NOVEMBER	**Unit II: Computational Thinking and Programming – 1**	● Students learn the Creation and Application of Tuples and Dictionary	● Practical Assignment 6 (based on tuples and Dictionary in Python)

	• Tuples in Python • Dictionary in Python	through Python programs using inbuilt functions	• Theory Assignment 8 (NCERT Book Exercise pages 223, 224)
DECEMBER	**Unit I: Computer Systems and Organisation** • Boolean logic • Number system	• Students will be able to understand different number systems and conversion from one number system to another • Students will learn about different encoding schemes	• Theory Assignment 9 (NCERT book Exercise pages 43,44)
	Unit II: Computational Thinking and Programming – 1 • Python modules	• Students are able to understand the concept of modules and its application in programs.	• Practical Assignment 7 (based on Python Modules) • Discussion on Theory based questions on Python Modules
JANUARY	**Unit III: Society, Law and Ethics** • Digital footprints • Digital society and netizen • Data protection	• Understands the need for data protection • Understands how to be safe online • Learns about e-waste management system	• Discussion of questions in NCERT book pages 245 - 250
	Python Project		
FEBRUARY	**Revision** Discuss technique of answering questions with proper marking scheme		Sample Question paper

HANSRAJ MODEL SCHOOL
PUNJABI BAGH, NEW DELHI
CURRICULUM
SESSION: 2025-26
ECONOMICS
CLASS-XI

MONTH	TOPIC	LEARING INTENTIONS	ACTIVITIES	ASSIGNMENT
April	**Part I Statistics: -** ➢ Introduction ➢ Collection of Data	Students would be able to define & understand the functions & limitations of statistics. They would Collect both primary and secondary data. Students will be able to Present in a well-designed framework.	Preparing Questionnaire	Multiple choice questions
May	➢ **Organization of Data**	The students would be able to organize the raw data according to the purpose of the study. and hence presenting it in a suitable manner so as to give clear picture of the study. This would help in developing Strategic Thinking among students.	PPT and Flow Chart	Series based questions

Month	Topic	Learning Objectives	Activity	Assessment
July	➢ **Presentation of Data**	The students would be able to Present the organized data according to the purpose of the study. so as to give a clear picture of the study.	presentation of newspaper reports	Data based questions
	➢ **Measures of central tendency:** ➢ Arithmetic Mean Median and Mode	They would be able to apply the tools of statistics on the collected data. The students would be able to find out median and mode the series and hence interpret the result. Students would be able to develop Application and Analytical Skills.	Numerical quiz	Numerical questions
August	➢ **Part II . Micro Economics** ➢ Unit 1 Introduction ➢ Unit II; Consumer behavior and demand(Marginal Utility Approach)	The students would understand the meaning of economy and its central problems. Students would be able to think logically.	Concept map	Short answer type questions
September	**Introduction of the project Revision and half yearly Exams**			

				Long answer questions
October	**Part II Micro Economics** ➢ Unit 2 Consumer's behavior and demand (Indifference Curve Approach)	It would help the student to understand how a rational consumer reacts to the changes in prices. This would help the students to develop Rational Thinking.	Mind Mapping	
November	➢ **Part II Micro Economics** Unit 3 producers behavior ➢ Unit4 market forms	The students would be able to understand how producers maximize their profits and also, they would know the types of markets that prevail in real world. This would help in developing Logical Thinking skill.	Podcast	Diagram based questions
December	**Part I Statistics:** ➢ **Correlation**	Correlation would help them to find out how the variables under study are related to each other. This would help in developing Problem Solving skill.	Sports Integration Activity: Basketball (Height and Performance)	Numerical questions and MCQs
January	**Part I Statistics:** ➢ Index Numbers Follow up Project	Students will be able would know the terms like inflation, WPI, CPI etc. This would help in developing Critical thinking and evaluative skill.	Animation and Collage	Short answer questions

February	**Revision and Annual Exams**			

HANSRAJ MODEL SCHOOL
PUNJABI BAGH, NEW DELHI
CURRICULUM
SESSION: 2025- 2026
SUBJECT: ENGINEERING GRAPHICS
CLASS: XI

MONTH	TOPICS/SUBTOPICS	LEARNING INTENTIONS	ACTIVITIES	ASSIGNMENTS
April -May	● Introduction ● Lettering ● Lines, angles & rectilinear figures ● Circles & tangents	To know the use & importance of engineering Graphics To know the use & format of different type of lines To draw figures with accuracy To inscribe and circumscribe different types of polygons in circle To develop polygons by tangent method around the circle	. Activity (includes art integration) Make different curves using thread, pins,cardboard etc.	Assignment-1 on lettering & types of lines Assignment-2 on Rectilinear figures Assignment-3 on circles & tangents

July	• Projection of points	To understand different angle method of projection Able to draw projection of points in all quadrants Can visualise lines in different positions.		Assignment-5 on projection of points
	• Projection of lines	Able to draw projections of lines in different positions by first angle method of projection		Assignment-6 on Projection of lines
August	• Projection of planes	Can visualise planes in different positions. Able to draw projections of planes in different positions by first angle method of projection	Activity (includes moral values) Make a Quadrant model using cardboard.(take care of your surroundings and keep them clean)	Assignment-7 on projection of planes
	• Projection of solids	Can identify different types of solids. Able to draw projections of solids in different positions by first angle method of projection		Assignment-8 on projection of solids
September	• Projection of solids	Solids in horizontal positions	Activity : Analyze models of solids in horizontal and vertical positions.	

October	● Section of solids	Able to understand & draw sections of different types of solids.	Activity (includes moral values) To develop different types of prisms & pyramids using thick paper.(Take care of the lab properties while working there)	Assignment-9 on section of solids
November	● Isometric projection	know the use of iso-scale. Able to draw iso-scale & single solid in isometric projection		Assignment-11 on isometric projection
December	● Orthographic projection	Able to draw orthographic & isometric views of machine blocks		Assignment-12 on orthographic projection
January	● Machine blocks	Able to explore/make the 3D shapes/models of machine blocks.	Activity : Cut the 3D models of machine blocks using orchis/foam	Refer figures from Assignment-12

HANSRAJ MODEL SCHOOL
PUNJABI BAGH, NEW DELHI
Academic Plan
SESSION: 2025-2026
HOME SCIENCE
CLASS: XI

MONTH	TOPIC	LEARNING INTENTIONS/OUTCOMES	ACTIVITIES/ASSIGNMENTS
APRIL	**Ch.1Introduction to Home Scie**nce	**The students will be able to-understand --** the evolution of the discipline and its relevance to quality of life.	Poster/Chart on scope of Home Science Discussion on role of Home science in present scenario
MAY	**Ch.3 Food, Nutrition, Health and Fitness** **a. Balanced diet** **b. Food groups,** **c. Diet for adolescent** **d. Factors influencing eating behaviors and eating disorders**	understand the term --balanced diet and apply in the concept in planning and consuming diets, Difference between Dietary Requirement and RDA, Basis for classification of foods into groups, Analyze the factors influencing adolescent food habits,	*List 10 foods that you commonly eat. Identify the food group to which each food belongs .List the macronutrients and micronutrients present in the foods listed. Identify foods which are the richest sources of energy Write ten sentences starting with-I am

		Identify the causes, symptoms and nutritional interventions related to eating disorders	
JULY	**Ch.2 Understanding the Self** **a. Who am I?** **b. Development and Characteristics of the self** **c**. Influences on Identity-Biological and physical changes, Socio-cultural contexts, emotional changes, Cognitive changes	**able to**-discuss the importance of knowing oneself and the significance of developing a positive sense of self, list the factors that influence the development of selfhood and identity, analyze why the period of adolescence is critical for the development of self and identity, describe the characteristics of self during infancy, childhood and adolescence , ,	*Make friends with a 5 year old, a 9 year old and 13 year old. Ask them to describe themselves and note/analyze what they say. * Pictorial presentation of your strengths and weaknesses

AUGUST	**Ch.4 Management of resources-time, money, energy and space-**
	      a. Human and Non- Human Resources
	
	      b. Managing Resources
		able to-discuss the concept of resource, identify various resources, classify resources into human and non-human, describe the characteristics of resources,
		Explain the need for managing resources, Analyze the management process.
			*List the resources you would need to secure good marks and study well. Compare your list with others.

	Ch.5 Fabric around us—
	      a. Classification
	      b. Yarn Processing
		able to- discuss the diversity in fabrics, name and classify the fabrics commonly seen around, explain the concept of yarn and fabric making, describe properties of each group of fabrics,make informed selection of textile products for specific end use.	*Collect different kinds of fabric samples from home, tailor's shop, cloth shop or friends. Name each fabric.
			*Collect and evaluate five labels of fabrics./ garment

	Ch. 6. Media and Communication Technology	**able to**- understand the concept and significance of communication in everyday life. Describe the process of	* Collect one news story or a campaign or a social message from any two media.

		communication, classification and functions of media. Able to analyse the various communication technologies.	*Make a presentation on different folk media used in different states of India.

SEPTEMBER	**Unit-2 : Understanding family ,community and Society**
	CH.9 Relationships and interactions with 'significant others'—
	
	    a. Family
	    b. School-peers and educators
	    c. Community and society
		able to- understand the meaning and definition of family, importance of family and its functions, gain knowledge of the family life cycle, analyze dynamics within the family, understand the importance of effective communication in the family	*Convene a debate on the topic "Traditions are a hindrance to modern living". Conclude by noting positive and negative dimensions of traditions.

	Half Yearly Examination **Ch.10 Concerns and needs in diverse contexts**: **a.** <u>Nutrition, Health and Hygiene</u>- *Social, Mental and Physical Health,*Health care *Indicators of Health, * Factors affecting nutrition well being, *Problems and consequences –under	**able to**—discuss the importance of health and its dimensions, understand the interrelationship of nutrition, health and disease, identify the consequences of under	*Organize an exhibition on Health, Nutrition and Hygiene.

	nutrition-malnutrition,*Hygiene and Sanitation	nutrition and over nutrition, select appropriate and healthy food choices, explain the importance of hygiene and sanitation for preventing food-borne diseases.	* Survey to collect information on eating habits of school age children and adolescents
OCTOBER	**b.**Resources availability and management-*Time management,*Space management	**able to**—Analyze the need for managing time and space, discuss ways of managing time and space, discuss tools in time management, explain the principles of planning space	*Identify your own time management skills. *Make a time plan for yourself and for your mother. *Identify your daily peak load and rest periods. *Make a list of different rooms/ areas in your house and the activities carried out in each of these.

NOVEMBER	**Unit -3: Childhood**
	Ch.11 Survival, growth and development
	      a. Areas of growth and development
	      b. Stages of growth and development
		able to-explain and analyze the relationship between growth and health, discuss the characteristics of different stages of childhood, describe	*Collect and evaluate the growth curve of five children.(5yrs).
			* If you have a sister/ brother , write down two qualities you like in her/him.

	c. Types-physical,motor,cognitive,language,socio-emotional	developmental milestones, examine development in different domains of childhood.	What does she/he like in you? Write two things.
	Ch.12 Nutrition, health and wellbeing **a**. From birth to 12 months-immunization, health and nutrition problems **b.**1 to 6 years---guidelines and planning of balanced meal, low cost food, feeding children with special needs, Immunization **c.** 7 to 12 years---planning diets, healthy habits	Describe the nutritional needs of children at different stages of development, make suggestions for planning balanced meals for children, discuss food habits of children, describe the immunization schedule, identify important health and nutrition related problems of children.	*Find out from your parents/aunt about the traditional complementary foods of your region. Do you think these foods are nutritious? Give reasons for your answers. *Suggest what you will serve for breakfast and dinner to a 9-year old girl and 11-year old boy who are vegetarian
DECEMBER	**Ch.14. Our Apparel** a. Functions and selection of clothes b. Clothing needs of children –Birth to adolescent and for CWSN	**able to**—discuss the clothing functions and the factors influencing selection of clothes, Identify general clothing needs of the children, Recognize the characteristic features and clothing requirements of children from different age groups, Discuss	*Observe children of various age groups and note what clothing they wear at ages 2 years, 5 years, 8 years, 11 years ,and 16 years.

		the clothing needs of children with special needs	

	Unit-4: Adulthood
	
	Ch.15 Health and Wellness
	    a. Aspects/Parameters of healthy person
	    b. Achieving fitness
		able to—Discuss the importance of health and fitness, Explain the health concerns and challenges of adults, Describe the concept of wellness and he steps to promote and maintain good health and wellness in adults.	*Assess BMI for self and ten friends.
			* Debate on " When one is physically fit,it is not necessary to bother about one's diet".
			*Design attractive posters to publicise the importance of wellness and fitness
			* Yoga and Meditation session

	Ch.16 Financial management and planning
	    a. Planning
	    b. Types of family income
	Budget
		able to—understand the meaning and concept of financial management ,know different types of income, Explain the steps in making family budgets, Describe meaning of savings and investments, Discuss the principles of sound investments.	*Identify all sources of money income available to your family in a month.
			* Identify different sources of direct income of your family.
			* Evaluate your family budget
			*Identify various avenues of savings and investments that your family is making use of.

			*Visit a bank in your neighborhood and enquire about various facilities, investment and saving options available to the customers.

JANUARY	c. Money management
	d. Saving and Investment
	
	Ch.17 Care and maintenance of fabrics
	  a. Mending
	  b. Laundry
	  c. Stain removal
	  d. Finishing and ironing
	  e. Dry cleaning
	  f. Storage
	  g. Fabric care
	  e. Care Label
		able to—understand the aspects of care and maintenance of different fabrics, know the procedure of removing different stains, Identify the process of laundry, Describe the role of water, soap and detergents in laundering, describe he use and care of the fabric in relation to their properties.	Prepare a chart on washing instructions on care labels

FEBRUARY	Revision Work and Annual Examination		

Hansraj Model School, Punjabi Bagh, New Delhi
ACADEMIC PLAN
SUBJECT : Informatics Practices(2025_26)
CLASS XI Code - 065

Month	Topic / Sub-topics	Learning Intentions	Activities	Assignments
April/May	**Unit II : Introduction to Python** Chapter 3: Basics of Python Programming ● Basics of Python programming, Python interpreter - interactive and script mode, program structure, indentation, identifiers, keywords, constants, variables. ● In-depth explanation about the print statement for output purposes.	**To be able to:** ● Launch and work with Python IDLE ● learn basic programming in Python, Tokens, and Variables. ● Design simple programs to know about int, float, and string ● Work in Interactive and Script mode. ● Write sufficient-length programs for practicing print statements ● that different symbols represent different operations and understands the use of operators. . **PROGRAMMING SKILLS**	Identify the personal details of students from school identity card and write a program to accept these details and display them in the ID format.	**Python Practical Assignment 1 , 2** (Based on print , input statement and Arithmetic Operators) **Theory Assignment** based on data types and operators

July	**Unit II**: Introduction to Python Chapter 3 Basics of Python Programming **Contd…** ● Types of operators, precedence of operators, data types, mutable and immutable data types, expressions, evaluation and comments, input and output statements, data type conversion, and debugging. Control Statements: if-else, if-elif-else	**To be able to** ● learn Data types, Expressions, Operators, Types of Errors, and Conditional / Iterative / Jump statements. ● Use different operators and the Assignment statement ● write Python scripts using conditional statements **CRITICAL THINKING AND DECISION MAKING**	Write programs using if and if–else for the different tasks encountered in real life (Eligible for Scholarship, for giving vote, Grades in Academic subjects based on condition)	**Python Practical Assignment 3** ((Based on if-else, if-elif-else)
August	**Unit II**: I**ntroduction to Python** Chapter 3 Basics of Python Programming **Contd…** ● Control Statements: For and While loop	**To be able to :** ● write Python scripts using looping concepts. ● know the need for iterative programming ● Understand the need and efficiency of break and continue keywords **PROBLEM SOLVING**	Create an algorithm/steps that allows two players to play a game of Rock, Paper, Scissors.	**Python Practical Assignment 4** ((Based on for and while loop)
	Unit I: **Chapter 1 Basic ComputerOrganization** ● Introduction to computers and computing: evolution of computing devices, components of a Computer systems and their interconnections, input/output devices. ● Computer Memory: Units of memory, types of memory primary and	**To be able to :** ● know about the Computer System, Functional & physical components of the Computer, Evolution of the Computer. ● know Computer Memory, Data, Capturing, Data Storage, Data Retrieval, Data Deletion & Data Recovery. ● learn about different types of	● Divide students into two teams- Hardware Team and Software Team. Train both teams to troubleshoot basic hardware and software problems so that they can assist . Assign the Hardware team to attend all hardware issues of	●Theory Assignment

	secondary, data deletion, its recovery, and related security concerns. ● Software: purpose and types – system and application software, generic and specific purpose software.	software	Computer Lab. Assign the Software Team to attend all software related issues. To show Computer parts	
September	Revision for Half-Yearly Examination	**To be able to** : Understand and Attempt Questions	**Memory techniques:** Model how to remember facts, key language.	**Solving Revision Assignments**
October	**Unit II**: **Introduction to Python** Lists and Dictionaries ● Lists: list operations - creating, initializing, traversing, and manipulating lists, list methods, and built-in functions – len(), list(), append(), insert(), count(),index(),remove(), pop(),reverse(), sort(), min(),max(),sum() ● Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements,dictionary methods and built-in functions – dict(), len(), keys(), values(), items(), update(), del(), clear()	**To be able to :** ● understand how to create lists and dictionaries. Difference between lists and dictionaries. They can able to solve real-life problems ● understand the use of lists and dictionaries as per the requirements ● write Python scripts using list and dictionary concepts **APPLICATION SKILLS**	**To create menu based Algorithm** Create an administrative user ID and password to add, modify or delete an entered heritage site in the list of sites. • Display the list of world heritage sites in India. • Search and display information of a world heritage site entered by the user. • Display the name(s) of world heritage site(s) on the basis of the state input by the user.	●Theory Assignment **Python Practical Assignment 5** (Based on concepts of List) **Python Practical Assignment 6** (based on concept of dictionaries) Menu-based programs

| November | Unit III: Database concepts and the Structured Query Language

Chapter -Database Concepts

● Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model:

● Concept of domain, tuple, relation, candidate key, primary key, alternate key. Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language

, ● Introduction to MySQL, creating a database using MySQL, Data Types

● Data Definition: CREATE DATABASE, CREATE TABLE, DROP, ALTER | To be able to :
● understand database concepts and Relational databases Management Systems.

● learn about retrieving and manipulating data in RDBMS using Structured Query Language. | ● Observe Voter Identity cards of your family members and identify the data fields under which the data is organised. Are they the same for all? | ●Theory Assignment

● Practical Assignment on DDL/DML and output-based queries |
|---|---|---|---|---|

December	**Unit III: Database concepts and the Structured Query Language** ● Data Query: SELECT, FROM, WHERE with relational operators,BETWEEN, logical operators, ISNULL, IS NOT NULL ● Data Manipulation: INSERT, DELETE, UPDATE	**To be able to :.** ● learn about inserting records and writing queries in MySQL **LOGICAL THINKING**	● Visit a few shops where records are Maintained manually and identify a few limitations of manual record keeping faced by them.	●**Theory Assignment** ●**Practical Assignment on DML Commands**
January/ February	**Unit IV** **Emerging Trends** ● Artificial Intelligence,Machine Learning, Natural Language Processing, Immersive Experience (AR, VR), Robotics, Big data, and its characteristics, Internet of Things (IoT), Sensors, Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Blockchain technology. ● Revision for Annual Exams ● Technique of answering questions with a proper marking scheme. ● Revision and discussion of the Sample question paper	**To be able to :** ● Identify the Emerging trends in the fields of Information Technology, like AI, Machine Learning, NLP, and other technologies, and how they work. ● To solve the Sample Question Paper ● Practicing Question papers	**Find out how NLP is helping differently-abled persons.** **Explore and list a few IoT devices available in the market**	●Theory (Chapter Notes) ● Assignment (Based on Theory Questions) ● Revision Assignments ●Sample Question Paper Discussion

HANSRAJ MODEL SCHOOL

PUNJABI BAGH, NEW DELHI

Academic Plan

SESSION: 2025-2026

SUBJECT: Mathematics

CLASS: XI

MONTH	TOPIC/ SUBTOPIC	LEARNING INTENTIONS	ASSIGNMENTS	ACTIVITY

APRIL MAY	**SETS**
	  I. Sets and their representation
	  II. Empty set , finite and infinite set , equal sets
	  III. Subsets , subsets of a sets of real numbers
	  IV. universal sets
	  V. Union and Intersection of sets
	  VI. Venn Diagram
		The student will be able to
		● Define Sets and their representation
		● Define Empty set , finite and infinite set , equal sets
		● Find Subsets , subsets of a sets of real numbers
		● Understand universal sets
		● Find Union and Intersection of sets
		● Find Difference of sets , complement of set.
			Assignment on Sets	**Activity 1**-To verify the distributive law

	RELATION AND FUNCTION
	  I. Ordered pairs
	  II. Cartesian product of two sets , number of elements in this Cartesian product of two sets
	  III. Definition of relation , Arrow diagrams
	  IV. Domain , co- domain and range of a relation
	  V. Function , real valued function, domain and range of a function
	  VI. Some special functions
	  VII. Sum , difference , product and quotient of two real functions.
		Students will be able to use the language , symbols and notation of set theory .
		
		The student will be able to
		● Understand the meaning of the cartesian product of two sets.
		● Find A X B and B X A, if Set A and B are given or vice versa.
		● Define a relation
		● Find domain, range, codomain and draw an arrow diagram of a given relation.
		● Find the domain and range of a given real function.
		● Define naming function
		● Write domain , range and draw graph of naming functions.
		● Find f + g, f - g, f g and f/g for two given functions f and g.
		Students will develop
			Assignment on Relations and functions	**Activity 2**-To identify a relation and a function
				
				Art Integration : Making graph of greatest integer function using matchsticks

		abstract critical and logical thinking.		

JULY	**TRIGONOMETRIC FUNCTIONS** I. Positive and negative angles II. Measuring angles in radians and degrees and conversion from one measure to another III. Definition of trigonometric functions with the help of unit circle IV. Signs of trigonometric functions and their graphs V. Various formula of trigonometry and their applications	The student will ● understand positive and negative angles ● convert angle from one measure to another ● Define trigonometric functions with the help of unit circle ● understand signs of trigonometric functions and their graphs ● apply various formula of trigonometry in questions. Students will develop abstract critical thinking.	Assignment on Trigonometric functions	**Activity 3**-To plot the graph of sin x and sin 2x on the same coordinates
AUGUST	**COMPLEX NUMBERS** Introduction to i and meaning of complex number ● Algebraic properties of complex numbers ● Argand plane **Linear Inequalities**	The student will ● Appreciate concept of i ● know meaning of complex number ● Know Algebraic properties of complex numbers ● Draw Argand plane Students will develop abstract and critical thinking.	Assignment on Complex Numbers	

			Assignment on Linear inequality	
	● Algebraic solutions of linear inequalities in one variable and their representation on the number line ● Word problems	The student will ● understand linear inequalities. ● plot solution of linear inequalities on the number line. ● apply knowledge of linear inequalities in solving word problems. The students will be able to understand the method of solving linear inequalities		
SEPTEM BER	**Half Yearly Examinations**			

OCTOBER	**PERMUTATION AND COMBINATION**
	  I. Fundamental principle of counting
	  II. Factorial notation
	  III. Meaning of permutation and combinations
	  IV. Simple applications .
		The student will
		● understand Fundamental principle of counting
		● apply the Fundamental principle of counting to solve real life problems.
		● understand factorial notation
		● understand difference of permutations and combinations and apply them to solve word problems.
		Students will develop abstract critical and logical thinking and become confident in using mathematics to analysis , solve problems in real life situations.
			Assignment on permutations and combinations	**Activity 4-** To find the number of ways in which three cards can be selected from given five cards

NOVEMBER	**BINOMIAL THEOREM**
	  I. Statement and proof of the binomial theorem for positive integral index
	  II. Pascal's triangle
		The student will be able to
		● Understand the meaning of binomial.
			Assignment on Binomial Theorem	**Activity 5**-To construct a pascal triangle and to write Binomial expansion for a given positive integral expansion using matchstick (**Art Integration**)

	● Construct Pascal's Triangle ● Expand $(a + b)^n$ ● Apply binomial expansion for calculations Students will learn to apply general rules correctly to solve problems.	

SEQUENCE AND SERIES

   I.   Geometric Progression
   II.   General term of a GP
   III.   Sum of first n terms of a GP
   IV.   Sum of infinite GP
   V.   Geometric Mean
   VI.   Relation between A.M. and G.M.

The student will
● understand Geometric Progression
● apply the formula of a_n and S_n to solve problems.
● understand GM, AM and their relationship

Assignment on Sequences and Series

Activity 6- To demonstrate that the Arithmetic mean of two different positive numbers is always greater than Geometric mean

Students will learn to recognise patterns, describe pattern as relationship or general rules.

STRAIGHT LINES

   I.   Slope of line and angle between two lines
   II.   Various forms of equations of a line; parallel to axis , point –slope form , slope intercept form
   III.   General equation of a line
   IV.   Distance of a point from a line

The student will
● define slope of a line
● find angle between two lines
● understand various forms of a line.

Assignment on Straight lines

		● find the distance of a point from a line. Students will learn to use different forms of mathematical formulae for a straight line		

DECEMBER	THREE DIMENSIONAL GEOMETRY
	  I. Co – ordinate axes and coordinate planes in three dimensions
	  II. Coordinates of a point in space
	  III. Distance between two points.
		The student will
		● understand eight octants
		● find distance of two points in space.
		
		Students will be able to know about three dimension plane and its properties.
			Assignment on Three Dimensional Geometry	**Activity 7 -** To explain the concept of octants by three mutually perpendicular planes in space.
				
				Art Integration: Creating Three dimensional plane to show Octants

	CONIC SECTION
	  I. Sections of a cone - circle , ellipse, parabola , hyperbola
	  II. Standard equations of parabola , circle , ellipse and hyperbola.
		The student will
		● understand sections of cone
		● find standard equations of all four sections with given parameters.
		● identify the conic section from given equation
		
		Students will be able to develop abstract critical and logical thinking.
			Assignment on Conic Sections	**Activity 8** -To construct an ellipse when two fixed poir are given using thread(**Art Integration**)

	PROBABILITY
	  I. Random experiment
	  II. Outcomes , Sample space , events , occurrence of events
	  III. Exhaustive events
	  IV. Mutually exclusive events
	  V. Axiomatic approach to probability , connection with set theory
		The student will
		
		● understand random experiments, Outcomes and sample space
			Assignment on Probability	**Activity 9** - Write the samp space when a die is tossed twice, thrice,__ _ _ _.
				
				Art Integration: depicting Sample space of a random experiment in a creative wa

	VI. Probability of not , and or events.	● define types of events ● apply algebra of events ● find probability of an event Students will learn to develop mathematical curiosity and use inductive and deductive reasoning while solving problems ,		

JANUARY	**STATISTICS**
	   I. **M**easure of dispersion
	   II. Mean deviation about the mean and median
	   III. Variance
	   IV. Standard deviation
		The studen will
		● understand grouped and ungrouped data.
		● find mean and median of grouped and ungrouped data.
		● find the mean deviation about mean and about median.
		● find variance and standard deviation.
			Assignment of Statistics	

		Students will learn mathematical investigation to apply mathematical knowledge,analyse information in solving problems.		

	LIMITS AND DERIVATIVES
	  I. Derivative introduced as rate of change of functions and geometrically
	  II. Intuitive idea of limit
	  III. Limits of polynomials and rational functions , trigonometric , exponential and logarithmic functions
	  IV. Derivative using first principle
	  V. Derivative of sum , difference , product and quotient of functions
	  VI. Derivatives of polynomial and trigonometric function.
		The student will
		● understand algebra of limits
		● evaluate Limits of polynomials and rational functions
		● evaluate Limits of Trigonometric, Logarithmic and Exponential Functions
		● apply algebra of derivative of functions
		● find derivative of the functions from first principle.
		
		Students will be able to select and apply general rules correctly to solve problems in real life context.
			Assignment on Limits and derivatives.	**Activity 10 -** To find analytically $\lim\limits_{\square \to \square} \square(\square)$, where $\square(\square) = \dfrac{\square^2 - \square^2}{\square - \square}$

HANSRAJ MODEL SCHOOL
PUNJABI BAGH, NEW DELHI
CURRICULUM
SESSION: 2025-2026
SUBJECT: PHYSICAL EDUCATION
CLASS: XI

MONTH	TOPIC / SUB TOPICS	LEARNING INTENTIONS/Skills development	ACTIVITIES / ASSIGNMENTS
JULY	**Unit-1 Changing trends and Career in physical education** Meaning & definition of physical education Aims & Objectives of physical education Changing trends in Sports- Playing surface, wearable gear and sports equipment, technological advancements Career options in physical education Khelo –India program Development of Physical Education in India- Post Independence	1. After acquiring complete knowledge regarding career options in the field of physical education. 2. Student can easily choose his/her right career. 3. Student will be able to know about the development of latest changes in playing surface, technology and equipment's in sports and games and about the development of physical education in India- Post Independence COGNITIVE SKILLS WELLNESS	Role Play activity Assignment on Topics
	Unit-II : Olympism Value Education Olympism – Concept and Olympics Values (Excellence, Friendship & Respect)	1. Student will be able to know about the origin of ancient and modern Olympics 2. He/she will come to know about the Olympics and its Movement.	Quiz on the topic ASSIGNMENT OF TOPICS

	Development of Physical Education in India- Post Independence Ancient and Modern Olympics Olympics – symbols, Motto, Flag, Oath and Anthem Olympic Movement Structure – IOC, NOC, IFS, Other members	3. Students will be able to understand the concept of Joy of Effort, Fair Play, Respect for others, Pursuit of Excellence, Balance among Body, Will and Mind COGNITIVE SKILLS ANALYTICAL & COMMUNICATION SKILLS	
August	**Unit-V : Physical Fitness, Health & Wellness** Meaning & Importance Of Physical Fitness, Wellness & physical fitness Components of health, physical fitness and Wellness Components of Health related fitness Traditional Sports & Regional games for promoting wellness Leadership through Physical activities and sports Introduction of First- Aid PRICE **Unit-IV : Physical Education & Sports for CWSN(children with special needs-Divyang)** Concept of Disability and Disorder Types of disability, its causes and nature (Intellectual disability , Physical disability) Disability Etiquettes Aims & objectives of Adaptive Physical Education Role of various professionals for children with special needs (Counsellor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist & special Educator)	1. Student will be able to understand components of physical fitness, wellness and Health which will help them to keep themselves physically fit. 2. After gaining the knowledge about importance of physical fitness, wellness and lifestyle, one can lead a healthy life. Students will know about the traditional and regional games. 3. Students will understand the role of First aid and Price therapy. Students will learn about the different disabilities and disorders Students will learn about the concept of adaptive physical education Knowledge about various professions for children with special needs will help them to deal such type of students and will enhance their attitude and role towards CWSN.	Chart on importance of physical fitness ASSIGNMENT OF TOPICS Quiz on the topic ASSIGNMENT OF TOPICS

		COGNITIVE SKILLS DECISION MAKING AFFECTIVE SKILLS	
September	**Unit- III : Yoga** Meaning & Importance of Yoga Introduction of Ashtang Yoga Introduction of Yogic Kriyas (Shat karma) Pranayam and its types Active lifestyle and stress management through Yoga	1. Student will be able to understand the importance of Yoga and Ashtang Yoga 2. students will learn about Ashtang Yoga 3 students will also learn about yogic kriyas. 4. Knowledge of active lifestyle will help in stress management through yoga UNDERSTANDING SKILLS COGNITIVE SKILLS APPLICATION SKILLS	Quiz on the topic ASSIGNMENT OF TOPICS
October	**Unit-VI : Test, Measurement & Evaluation** Define Test, Measurement and Evaluation Importance of Test Measurement and Evaluation in sports Calculation of BMI, Waist Hip Ratio, Skin fold measurements(3 Site) Somato Types (Endomorph, Mesomorph, Ectomorph) Measurement of health related fitness.	1. Students will understand the concept of test, measurement and evaluation and will be able to classify different test in Physical education and sports with its administration. 2. Students will learn about different traits of personality 3. Students will also learn about measurement of health related fitness ANALYTICAL SKILLS DECISION MAKING COMMUNICATION SKILLS APPLIED SKILLS	Test to be conducted by the students ASSIGNMENT OF THE TOPICS

November	Unit-VII : Fundamentals Of Anatomy & Physiology in Sports Definition and importance of anatomy & physiology in exercise and sports. Function of Skeleton system, classification of bones and types of joints Properties and Functions of Muscles Function and structure of respiratory system and circulatory system and Heart	1. Understand the importance of anatomy & human physiology 2. Students will learn about Skeleton system, bones classification and types of joints 3. Students will understand about the properties and functions of muscles 4. Students will learn about the function and structure of heart and respiratory system UNDERSTANDING SKILLS COGNITIVE SKILLS APPLICATION SKILLS	Chart of different body types ASSIGNMENT OF TOPICS Quiz on the topic ASSIGNMENT OF TOPICS
	Unit-VIII : Fundamentals Of Kinesiology & Biomechanics in Sports Definition and Importance of Kinesiology and Biomechanics in sports Principles of Biomechanics Kinetics and Kinematics in Sports Types of body movements – flexion, Extension, Abduction, Adduction, Rotation, Circumduction, Supination and Pronation Axis and Planes- concept and its application in body movements.	Students will be able to learn about role and importance of Kinesiology and Biomechanics and about the principles of biomechanics. Students will understand the concept of Kinetics and kinematics in sports Students will also learn different movement's planes and axis.	

| December | Unit-IX   Psychology & Sports
*Definition and importance of physiology in physical education and sports

Development Characteristics at Different stages of Development
*Adolescent problem and their management.
* Team cohesion and sports.
Introduction of Psychological Attributes: Attention, Resilience, Mental Toughness. | 1. After acquiring the knowledge of growth and development, student will be able to understand the problems and their solutions.
2. Students will learn about the different stages of development
3. Will be able to understand problem of adolescent with their management.
4. Students will also learn team cohesion and sports

5. Students will understand the concept of Psychological Attributes: Attention, Resilience, and Mental Toughness.

COMMUNICATION SKILLS
UNDERSTANDING SKILLS
COGNITIVE SKILLS
APPLICATION SKILLS | Make a ppt on role of cohesion
ASSIGNMENT OF TOPICS |

January	Unit-X : Training and Doping In Sports Concept & Principles of sports training Training load : over load , Adaptation and Recovery Warming up- Limbering Down- Types methods and importance Concept of Skill Technique, Tactics & Strategies Concept of Doping and its disadvantages	1. Students will have the learning about the concept of sports training. 2. Students will also learn about over load adaptation and recovery 3. Students will understand the concept of Warming up and Limbering down 4. Concept of doping will also be clear to the students 5. Concept of Skill Technique, Tactics & Strategies COGNITIVE SKILLS APPLIED SKILLS COMMUNICATION SKILLS DECISION MAKING	Conduct of different exercises based on physical fitness components. ASSIGNMENT OF TOPICS
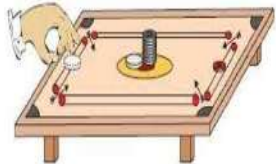
HANSRAJ MODEL SCHOOL
PUNJABI BAGH, NEW DELHI
ACADEMIC PLAN
SESSION: 2025-2026
SUBJECT: PHYSICS
CLASS: XI

MONTH	TOPIC / SUBTOPICS	LEARNING INTENTIONS	ACTIVITIES	ASSIGNMENTS
APRIL	**1.UNITS AND MEASUREMENT** Units of measurement,system of units,SI units,fundamental and derived units,significant figures,dimensions of physical quantities,dimensional analysis and its applications.Uncertainity in measurement.	**Units and Measurement** **Emphasis on basic concept**ual understanding of the content. Emphasis on use of SI units, symbols, nomenclature of physical quantities and formulations as per international standards. Promote problem solving abilities and creative thinking in learners. The Students will be able to * Define fundamental quantities and derived quantities and their units * understand the various system of units and dimensions of physical quantities	**Activities** 1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume. 2. To measure diameter of a given wire and thickness of a given sheet using screw gauge. 3. To determine volume of an irregular lamina using screw gauge. **Art integration activity** Measure the length of any object like a leaf or register using different units and arrive at	**Assignment link:-Units and Measurement** https://drive.google.com/file/d/1FwxDfgt-zNExuU_3xdoGSUzNFd7lWXl4/view?usp=sharing

		* apply dimensional analysis on checking the accuracy of an equation relating various physical quantities.		
		* convert one system of units into another by dimensional analysis		
		* derive relation between various physical quantities using dimensional analysis .		
		*understand the limitations of dimensional analysis		
		* understand the significant figures in measurements.		
		* understand the various mathematical operations with regards to significant figures		
MAY	2.MOTION IN A STRAIGHT LINE Frame of reference, Motion in a straight line, concept of differentiation and integration, uniform and non uniform motion, instantaneous velocity, uniformly accelerated motion, velocity	Students will be able to understand the concept of distance, displacement, velocity and acceleration . Students will be able to distinguish between average and instantaneous quantities. Students will be able to plot distance-time and velocity –time graph for uniform motion and uniformly accelerated motion. They will be able to analyze the graphs and obtain useful information Students will be able to apply equations of motion to solve the numerical examples. he students will be able grasp the importance of vector algebra	**Activity** 1. Plot position vs time graph for the following cases a) Stationary motion b)uniform motion c) non uniform motion 2. Plot velocity vs time graph for the following cases and calculate slope in each case a)uniform acceleration b) non uniform acceleration c) deceleration Aim :To study the variation in range of a projectile with angle of projection. Apparatus	**Motion in a straight line** **Assignment link:-** https://drive.google.com/file/d/1zp6JgyZxj15sB7Cmu19hcD9sbZ0hdrxE/view?usp=sharing

| JULY | time and position time graphs, graphical treatment of equations of uniformly accelerated motion

2.MOTION IN A PLANE

Position and displacement vectors ,equality of vectors,multiplication of a vector by a real number,addition of vectors,unit vector,resolution of a vector,scalar and vector products

motion in a plane,projectile motion,uniform circular motion | **Art integration activity**

The students will be able grasp the importance of vector algebra

They will be able to add, subtract and multiply vectors

They will be able to extend this knowledge to study motion of a projectile in a plane | A plyboard protractor with radius of about 30 cm and marked 0° to 90° with an interval of 15° each, a 10-meter long measuring tape, A constant level reservoir under pressure (a

tap connected to a tank or water supply line), a water pipe with a metallic nozzle

Procedure

1. Arrange a constant level water reservoir at one end of a horizontal slab of the laboratory.

2. Connect a water pipe with the outlet of the reservoir and insert a metallic nozzle in the other end of the pipe held in hand.

3. Open the water tap

4. Fix the protractor in a slot in a horizontal base to make its plane vertical and graduated surface towards yourself.

5. Place the nozzle at the center O of the protractor and make the jet pass through

15° marking on it.

6. The jet moves along a parabola and falls back on the slab at some distance. | **Assignment:-Motion in a plane**

https://drive.google.com/file/d/1zp6JgyZxj15sB7Cmu19hcD9sbZ0hdrxE/view?usp=sharing |

			7. Set the water tap such that the distance is a few meters.	
			8. Ask your classmate to make a mark B1 on the slab where the jet falls.	
			9. Change the angle to 30°, 45°, 60° and 75° and repeat step 8 to get marks B2,B3,	
			B4 and B5.	
			(Do not change the setting of the water tap, otherwise it will change the velocity U of the jet).	
			10.Measure distances OB1, OB2, OB3, OB4 and OB5 by measuring tape. These	
			distances give range R for different angles (and same velocity).	
			ebra	
			They will be able to add, subtract and multiply vectors	
			They will be able to extend this knowledge to study motion of a projectile in a plane	
JULY	**5. LAWS OF MOTION**	The student will be able to understand the significance of Newton's law of	**Activitie** : Laws of motion -Based on Newton's first law of motion	

	concept of force and inertia, Newton's first law of motion,momentum, Newton's second law of motion and third law,law of conservation of linear momentum equilibrium of concurrent forces,laws of friction,rolling friction vehicle on a level circular road,banking	inertia students will understand friction , types of friction and laws of friction The student should be able to relate force diagrams describing the motion of an object. The student will be able to relate the net force of an object to the acceleration of the object The student will be able to analyze and interpret a free-body diagram and determine the acceleration of an object. The student will be able to interpret a physics word problem to retrieve pertinent information and calculate the acceleration of an object. The student will be able to identify action-reaction force pairs for any physical situation students would be able to apply	Make a pile of similar carrom coins on a table Attempt a sharp horizontal hit at the bottom of the pile using another carrom coin or the striker. If the hit is strong enough, the bottom coin moves out quickly. Once the lowest coin is removed, the inertia of the other coins makes them 'fall' vertically on the table.**Activity: enough, the bottom coin moves out quickly. Once the lowest coin is removed, the inertia of the other coins makes them 'fall' vertically on the table.**	**Assignment : Laws of motion** https://drive.google.com/file/d/1K6Z1ODJSLjos7m7wR70_daIbGvDZ6nDB/view?usp=sharing

		the knowledge of banking of road in daily life https://drive.google.com/file/d/1zp6JgyZxj15sB7Cmu19hcD9sbZ0hdrxE/view?us		
	6 WORK ENERGY POWER Work done by constant force and variable force,conservative and non conservative forces,potential energy of a spring,motion in a vertical circle,elastic and inelastic collisions in one and two dimensions	**Experiment** To find the weight of a given body using parallelogram law of vectors Activity: Laws of motion-Based on Newton's first law of motion Make a pile of similar carrom coins on a table Attempt a sharp horizontal hit at the bottom of the pile using another carrom coin or the striker. If the hit is strong enough, the bottom coin moves out quickly. Once the lowest coin is removed, the inertia of the other coins makes them 'fall' vertically on the table. The student will be able to * define work and identify its units. * to predict whether a force is doing positive,negative or zero work. *distinguish between situations where force is constant and where it is variable and determine work accordingly The student will be able to categorize forces as being conservative or non-conservative and explain the significance of such a categorization * apply the work-energy relationship to simple real life situations	**Art integration activities** 1.Inelastic collisions demonstrated using putty & ball. 2 Elastic collision demonstrated with the help of glass marbles 3. Activity to demonstrate positive ,negative & zero work using a ball and a school bag	**Assignment:Work energy power** https://drive.google.com/file/d/1koGWJtnEgkhh2ARm8O4uF2U-14LB2Ifs/view?usp=sharing https://drive.google.com/file/d/1zp6JgyZxj15sB7Cmu19hcD9sbZ0hdrxE/view?usp=sharing

		* predict the outcome of collision between two colliding bodies in elastic head on collision SKILL DEVELOPMENT problem solving critical thinking		
AUGUST	7. **SYSTEM OF PARTICLES AND ROTATIONAL MOTION** Center of mass of a two particle system,moment um conservation and center of mass motion,center of mass of a rigid body and a uniform rod, moment of force,torque ,angular momentum, law of conservation Equilibrium of rigid bodies,equation	Students will be able to apply the concept of center of mass to different systems of particles. Students will be able to study center of mass motion Students will be able to grasp the significance of torque in rotational motion Students will be able to understand moment of inertia as analogous to mass SKILL DEVELOPMENT Technical skills,team work	**Art integration activity 1.**Hands on activity using a raw and a boiled egg to observe which spins faster and why **2.**Activity -Force applied to duster at its center of mass and then elsewhere to observe the kinds of motion it undergoes **3..**To determine the center of mass of a suspended lamina	**Assignment link:-System of particles and rotational motion** https://docs.google.com/document/d/1caIQFODr8Q7lk5gA5ID5hCu1AZwSImIo/edit?usp=sharing&ouid=107477510601089015388&rtpof=true&sd=true https://drive.google.com/file/d/1Uzt1gth70yKfJKbZQIsP_JUUlHWcC70T/view?usp=sharing

		Students will be able to appreciate Newton's Laws of gravitation & its universal appeal. Students will be able to apply Kepler's Laws to planetary motion. The students will be able to deduce change in acceleration due to gravity with height and depth Students will be able to describe gravitational field using concept of field intensity and potential Students will be able to analyze orbital motion of satellites Students will be able to judge that escape velocity is independent of mass of the body SKILL DEVELOPMENT problem solving critical thinking	Experiment Using a simple pendulum plot L-T graph and find effective length of a seconds pendulum **Art integration activity** Weigh the Sun 🌞 Can you find the mass of Sun if you know the orbital radius of earth	**Assignment- Gravitation** https://drive.google.com/file/d/1S0XzOQ5C_crZ-9rmcgjCiR
	s of rotational motion Moment of inertia,radius of gyration **8.GRAVITATION** Kepler's laws of planetary motion,law of gravitation,acceleration due to gravity and its variation with altitude and depth.Gravitational potential and potential energy,escape speed and orbital velocity			
SEPTEMBER	Revision and Half yearly exam			
OCTOBER	**9..PROPERTIES OF BULK MATTER** Properties of solids	Students will be able To distinguish between elasticity and plasticity To apply Hooke's law	Lab experiment To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.	**Assignment-Solids** https://drive.google.com/file/d/1Ib5SWI9lZZLcNu4e53XeItOcaYna5DvP/view?usp=share_link

	Elasticity,stress-strain relationship,Hooke's law,moduli of elasticity,poisson's ratio,elastic energy properties of fluids pressure due to a fluid column,pascal's law viscosity,stoke's law,terminal velocity,streamline flow,critical velocity, Bernoulli's theorem and its applications	To define basic terms stress, strain and their types To find Young's modulus and Bulk modulus To apply the stress versus strain relation in various day to day situations To understand viscous force acting on fluids in motion To apply stoke's law and find terminal velocity To derive and apply Bernoulli's theorem SKILL DEVELOPMENT Technical skills,team work	. To find the force constant of a helical spring by plotting a graph between load and extension. **Art integration activity** 1.Explain how a chairlift design engineer decides the number of people that can ride safely in a chair lift at a ski resort 2. Demonstrate and explain the difference in elastic behavior of a spring, iron rod,rubber band,water,sponge and putty	**Assignment-Fluids** https://drive.google.com/file/d/1s1WHudAH_Li-WZewuyJgm2Sn1F8v80dB/view?usp=share_link
NOVEMBER	**10. PROPERTIES OF BULK MATTER (continued)** Thermal properties of matter Heat,temperature,thermal	Students will be able to apply understanding of thermal properties to practical situations in everyday life They will be able to understand the three modes of heat transfer	**Art integration activity** **Argue with science** 1. What is the difference between heat and temperature 2. Why is a small gap left between the iron rails of railways tracks 3. How are fish able to survive even when ocean water freezes 4. Why do birds swell their feathers in winter	**Ncert worksheet :l Properties of matter** https://drive.google.com/file/d/1CVYzGz97MlZPw62D487UMvJiuHPdpsAF/view?usp=share_link

	expansion of solids liquids and gasses,anomalous expansion,specific heat,calorimetry,latent heat Heat transfer conduction,convection convection,radiation,thermal conductivity,black body radiation,Wien's displacement law, Stefan,s law **11.THERMODYNAMICS** Zeroth law,heat,work and internal energy,first law of thermodynamics and its		5. Why is a new quilt warmer than an old one 6. Why does a red colored object look red in color 7. Why does a cup of tea become cool after some time 8. Is a black body necessarily black. Can Sun be considered a black body	
		The students will be able to *Remember that heat always flows from hotter to colder body *Differentiate between heat , work and internal energy Identify first law of thermodynamics as law of conservation of energy Understand second law of thermodynamics Apply second law to isothermal,adiabatic,reversible , irreversible and cyclic processes SKILL DEVELOPMENT problem solving critical		**Assignment-Thermodynamics** https://drive.google.com/file/d/1kKjigjbOr1HHm4aMr6vFn23dVRqMm_w3/view?usp=share_link Assertion Reason and case based https://drive.google.com/file/d/1pt2snUF92NR8ZPJahRD4iuXVAh3gEbhr/view?usp=share_link

	applications, second law of thermodynamics ,thermodynamic processes			Minimal learning https://drive.google.com/file/d/17mjn5nTFuYZqx942g6SvlXUFJsVuwrCJ/view?usp=share_link MCQ https://docs.google.com/document/d/1rd4ysplgXuPuc46Pxoawgrk1wZYhzBWy/edit?usp=share_link&ouid=107477510601089015388&rtpof=true&sd=true
DECEMBER	**12.BEHAVIOR OF PERFECT GAS AND KINETIC THEORY** Equation of state of a perfect gas, work done in compressing a gas. Kinetic theory of gasses - assumptions, concept of pressure. Kinetic interpretation of temperature;	The students will be able to Recall difference between the three states of matter, Newton's laws of motion and conditions of perfectly elastic collision Remember the concept of internal energy Understand the assumptions of kinetic theory of gasses Derive the expression for pressure exerted by ideal gas Relate kinetic energy and temperature Apply understanding of root mean square speed of ideal gas Evaluate degrees of freedom of monoatomic, diatomic and triatomic gas	Experiment in lab 1. To study the relation between frequency and length of a given wire under constant tension using a sonometer. 2.. To study the relation between the length of a given wire and tension for constant frequency using a sonometer **Art Integration activity** performed using simple pendulum, helical spring, slinky etc to	Assignment https://docs.google.com/document/d/1nzx6J39trgfA3CAIh4yh6-qXltRl399l/edit?usp=share_link&ouid=107477510601089015388&rtpof=true&sd=true MCQ https://drive.google.com/file/d/1s1zj7XTLwVReKKSoPAAivGYoueINmIHH/view?usp=share_link Assignment https://docs.google.com/document/d/1zqTeO8gIP_m631bO4s7w44a_80Mg8

	rms speed of gas molecules; degrees of freedom, law of equi-partition of energy (statement only) and application to specific heat capacities of gasses; concept of mean free path	Apply law of equipartition of energy to find specific heat of gas Analyze random motion of gas and find its mean free path	understand oscillatory motion and wave motion	PkD/edit?usp=share_link&ouid=107477510601089015388&rtpof=true&sd=true
	13. OSCILLATIONS Periodic motion - time period, frequency, displacement as a function of time, periodic functions and	The students will be able to Recall difference between circular motion and oscillatory motion Give examples of periodic motions that are circular but not oscillatory and vice versa Understand important terms related with oscillatory motion Understand the important features of Simple harmonic oscillatory motion and write its differential equation Justify restoring force and time period as necessary conditions of oscillatory motion Apply concept of phase Illustrate the case of oscillations of a loaded spring and a simple pendulum. Derive kinetic and potential energy in SHM SKILL DEVELOPMENT problem solving critical thinking		MCQ https://drive.google.com/file/d/1c88iiSvE6zTV351t3t7JKBQ47izO2F9J/view?usp=share_link https://docs.google.com/document/d/12OJKAYdgaM92KbfJRAR0LlbGsyje6fny/edit?usp=drivesdk&ouid=117414855943371959813&rtpof=true&sd=true

	their applications. Simple harmonic motion (S.H.M) and its equations of motion; phase; oscillations of a loaded spring - restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period.			
JANUARY	**14 .WAVES** Wave motion: Transverse and longitudinal waves, speed of traveling wave, displacement relation for a progressive	Students will be able to *distinguish between transverse and longitudinal wave motion * apply the principle of superposition to understand formation of stationary waves and beats.	Students can do research on any of the following suggested case studies and activities Activity Demonstration of stationary waves in strings(in case of sonometer) & air column Experiment	https://drive.google.com/file/d/1imRDSPveIGwWXKnYVMOfCqdwSCXlr7j4/view?usp=share_link

	wave, principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes,fundamental mode and harmonics, Beats.	SKILL DEVELOPMENT problem solving critical thinking	To find the speed of sound in air at room temperature using a resonance tube in two resonance positions.	

POLITICAL SCIENCE (028)
CLASS XI
ACADEMIC PLAN 2025-26

Month	Topic/ Sub- Topics	Learning Objectives	Activities	Assignment
April	**Constitution: Why and How?** a) Why do we need a Constitution? ● Constitution allows coordination and assurance ● Specification of decision-making powers ● Limitations on the powers of government ● Aspirations and goals of a society ● Fundamental identity of a people b) The authority of a Constitution ● Mode of promulgation ● The substantive provisions of a constitution ● Balanced institutional design c) How was the Indian Constitution made? ● Composition of the Constituent Assembly ● Procedures ● Inheritance of the nationalist movement ● Institutional arrangements d) Provisions adapted from Constitutions of different	● Appreciate the need for a Constitution. ● Understand the historical processes and the circumstances in which the Indian Constitution was drafted. ● Critically evaluate how constitutions, govern the distribution of power in society. ● Analyze the ways in which the provisions of the Constitution have worked in real political life.	● Comparative Analysis: Different constitutions Reading of the Preamble ● Group Discussions and Debates: What happens in an organization in the absence of a set of rules and regulations to run it? How far our National Movement influenced the framing of our Constitution? ● Timeline/Flowchart ● Quiz	Competency based questions Multiple Choice Questions Cartoon and Passage based questions Short and Long Questions Competency

| | | countries
Rights in the Indian Constitution
a) The importance of rights
● Bill of Rights
b) Fundamental rights in the Indian Constitution
● Right to Equality
● Right to Freedom
● Right against Exploitation
● Right to Freedom of Religion
● Cultural and Educational Rights
● Right to Constitutional Remedies
c) Directive principles of state policy
● what do the directiveprinciples contain?
d) Relationship between fundamental rights and directive principles | ● Analyze the working of the Constitution in real life
● Learn to respect others, think critically, and make informed decisions
● Identify violations of the rights to equality and freedom in the society around them
● Comparison between Fundamental Rights and the Directive Principles of State Policy. | ● Discussion: Rights, the type of rights, why some rights are considered as fundamental?
● Lecture method Comparative analysis: Rights guaranteed in India and other countries
● Brain storming: Whether directive principles should take precedence over fundamental rights?
● Drama production on any one Fundamental Rights | based questions

Multiple Choice Questions

Cartoon and Passage based questions

Short and Long Questions |
| May | **Election and Representation**
a) Elections and democracy
b) Election system in India
● First Past the Post System
● Proportional Representation
c) Why did India adopt the FPTP system?
d) Reservation of constituencies | ● Identify different types and methods of election
● Develop critical thinking about the role of various stakeholders in ensuring free and fair elections.
● Demonstrate the innate role played by Election Commission
● Compare election | ● Conducting mock elections Comparative analysis: Election processes of different countries
● Reflecting on cartoons/ caricatures
● Group discussion: Challenges | Competency based questions

Multiple Choice Questions

Cartoon and Passage based questions |

	e) Free and fair elections Universal franchise and right to contest Independent Election Commission f) Electoral Reforms **Executive** a) What is an executive? b) What are the different types of executives? c) Parliamentary executive in India Power and position of President Discretionary Powers of the President d) Prime Minister and Council of ministers e) Permanent Executive: Bureaucracy	systems of different countries of the world. ● Recognize the meaning of Executive. Compare and contrast ● the Parliamentary and Presidential Executive. ● Analyze the composition and functioning of the executive. ● Know the significance of the administrative machinery. ● Distinction between Parliamentary and Presidential forms of Executive ● Importance and functioning of the administrative machinery.	and reforms ● Reflective inquiry: Recapitulating known facts ● Comparative Analysis: Different forms of Executive Interpretation of Cartoons/ caricatures ● Discussion and Debate: Powers and functions of the Real and Nominal Executive ● Quiz	Short and Long Questions Competency based questions Multiple Choice Questions Cartoon and Passage based questions Short and Long Questions
July	**Legislature** a) Why do we need a parliament? b) Why do we need two houses of parliament? Rajya Sabha Lok Sabha c) What does the parliament do? Powers of Rajya Sabha Special Powers of Rajya Sabha	● Describe the law-making process in India. ● Differentiate between the powers and functions of Lok Sabha and Rajya Sabha. ● Examine the parliamentary control over the Executive. ● Analyze the role of Parliamentary	● Comparative Analysis: Powers and functions of Lok Sabha and Rajya Sabha ● Passing of a Bill-Class activit/ ● Mock Parliament Map activity: ● Identification of states with	Competency based questions Multiple Choice Questions Cartoon and Passage based questions Short and Long

d) How does the parliament make laws? e) How does the parliament control the executive? f) What do the committees of parliament do? g) How does the parliament regulate itself? **Judiciary** a) Why do we need an independent judiciary? Independence of Judiciary Appointment of Judges Removal of Judges b) Structure of the Judiciary c) Jurisdiction of supreme Court Original Jurisdiction Writ Jurisdiction Appellate Jurisdiction Advisory Jurisdiction d) Judicial Activism e) Judiciary and Rights f) Judiciary and Parliament **Federalism** a) What is Federalism? b) Federalism in the Indian Constitution Division of Powers c) Federalism with a strong central government d) Conflicts in India's federal system	committees for the success of Indian democracy. ● Identify the different aspects which makes the Judiciary independent ● Compare and contrast the different jurisdictions ● Analyze the reasons why Judiciary has become proactive. ● Examine the reasons for the conflicts between the judiciary and parliament with respect to Constitutional Amendments. ● Explain the basic features of a federation. ● Identify the different levels of the government &subjects on which the union and state governments can make laws. ● Discuss the various constitutional provisions that led to a strong Centre in India.	bicameral legislatures Cartoon Interpretation ● Constructivist approach: The importance of India's Judicial System. ● Moot Courts ● Discussion: Enhancing assertiveness of the Indian Judiciary. ● Debates: How far separation of Powers is practiced? ● Cartoon interpretation ● Textual reading ● Group Discussion/Debate: Prevailing issues in Centre-state relations. ● Map activity	Questions Competency based questions Multiple Choice Questions Cartoon and Passage based questions Short and Long Questions

		Centre-State Relations Demands for Autonomy Role of Governors and President's Rule Demands for New States Interstate Conflicts e) Special provisions Jammu and Kashmir			
August	**Local Governments** a) Why local governments? b) Growth of Local Government in India Local Governments in Independent India c) 73rd and 74th amendments d) 73rd Amendment Three Tier Structure Elections Reservations Transfer of Subjects State Election Commissioners State Finance Commission e) 74th Amendment f) Implementation of 73rd and 74th Amendments **Constitution as a Living Document** a) Are constitutions static? b) How to amend the constitution? c) Why have there been so many amendments?	● Understand the Panchayati Raj system of local government in India, its emergence and significance ● Identify the objectives, functions and sources of income of rural and urban local government bodies ● Justify the significance of 73rd and 74th constitutional amendments ● Acknowledge and examine the significance of decentralization ● Introspect and realize the need to empower local government bodies ● Analyze the working of the Constitution. Know the various amendments that have taken place and the controversies raised.	● Recapitulation of definitions ● Timeline: Depicting the emergence of local government. ● Flowcharts: On the structural arrangement of Panchayati Raj. ● Concept maps: The functions of local government bodies at the rural and urban level ● Group presentation: Amendments ● Debate/group discussion: The merits and demerits of decentralization ● Brainstorming: To assess the achievements and drawbacks of	Competency based questions Multiple Choice Questions Cartoon and Passage based questions Short and Long Questions

	d) Contents of amendments made so far Differing Interpretations Amendments through Political Consensus Controversial Amendments e) Basic structure and evolution of the constitution f) Constitution as a Living Document ● Contribution of the Judiciary ● Maturity of the Political Leadership	● Appreciate why the Constitution is called a Living Document.	our Constitution ● Debate: Should the Judiciary have the power to determine the validity of amendments? ● Discussion: Are the amendments in the Constitution as per the needs and circumstances or guided by the whims and fancies of the ruling party?	
	The Philosophy of the Constitution a) What is meant by philosophy of the constitution? ● Constitution as Means of ● Democratic Transformation b) Why do we need to go back to the Constituent Assembly? c) What is the political philosophy of our constitution? ● Individual freedom ● Social Justice ● Respect for diversity and ● minority rights ● Secularism ● Universal franchise	● Appreciate the philosophical vision of our Constitution. ● Recognize the core features of the Indian Constitution. ● Evaluate the strengths and limitations of the Constitution ● Meaning and need for a political philosophy approach to the Constitution ● Highlight Strengths and limitations of the Constitution.	● Group discussion: Guiding philosophy of the Indian Constitution ● Quiz ● Reading the work of Great thinkers	Competency based questions Multiple Choice Questions Cartoon and Passage based questions Short and Long Questions

	● Federalism ● National identity d) Procedural Achievements e) Criticisms f) Limitations		
September	Political Theory: An Introduction a) What is politics? b) What do we study in political theory? c) Putting Political theory into practice d) Why should we study political theory?	● Define the term politics and identify various political principles. ● Explain the innate ideas of various Political theories. ● Appreciate the contribution of Political Thinkers (example: Jean Jacques Rousseau). ● Meaning and importance of political theory in Political Science.	● Collecting political cartoons from various newspapers and magazines and discussing the issues raised ● Reading the works of great thinkers ● Quiz	Competency based questions Multiple Choice Questions Cartoon and Passage based questions Short and Long Questions
October	Freedom a) The Ideal of freedom b) The sources of Constraints-Why do we need constraints? c) The Harm Principle d) Negative and Positive liberty Equality a) Why does equality matter? ● Equality of opportunities ● Natural and Social Inequalities	● Appreciate the ideal of freedom. ● Critically evaluate the dimensions of negative and positive liberty. ● Demonstrate spirit of enquiry ● Explain the ideas introduced by J.S. Mill in Harm Principle. ● Assess the possible limitations on freedom resulting from the social and economic	● Discussion: Individual freedom ● Debate: Does dress code curtail individual freedom? ● Comparative Analysis: Negative and positive liberty ● Examine current case studies related to the topic. ● Quiz ● Discussion and	Competency based questions Multiple Choice Questions Cartoon and Passage based questions Short and Long Questions

| | b) Three dimensions of equality
c) Feminism, Socialism
d) How can we promote equality?

Social Justice
a) What is Justice?
● Equal Treatment for Equals
● Proportionate Justice
● Recognition of Special Needs
b) Just distribution
c) John Rawls Theory of Justice
d) Pursuing Social Justice
e) Free Markets versus State Intervention | structures of society.
● Understand the moral and political ideals of equality.
● Assess how equality is perceived through different ideologies
● Recognize the means and methods to promote equality
● Classify the different dimensions of justice.
● Appreciate the measures taken by the government of India to secure social justice.
● Enlist the basic minimum requirements of people for living a healthy and productive life.
● State John Rawls' theory of veil of ignorance | debate:
Promotion of equality
● Reading the works of great
thinkers.
● Reflective Enquiry and Recapitulation
● Skit on Equality
● Role play

● Debate: Free Markets versus State Intervention
● Quiz
● Comparative Analysis:
Dimensions of justice | Competency based questions

Multiple Choice Questions

Cartoon and Passage based questions

Short and Long Questions |
| November | Rights
a) What are Rights?
b) Where do rights come from?
c) Legal rights and the state
d) Kinds of rights
e) Rights and responsibilities

Citizenship
a) Introduction
b) Full and equal membership | ● Define rights
● Identify the need for rights and its importance to mankind.
● Explain why rights need to be sanctioned by law.
● Describe the features of different kinds of rights.

● Explain the meaning of citizenship. | ● Discussion: Importance of rights
● Collaborative Learning-
● Assigning task for acquiring information on different types of rights.
● Comparative analysis: Different | Competency based questions

Multiple Choice Questions

Cartoon and Passage based questions |

	c) Equal Rights d) Citizen and Nation e) Universal Citizenship f) Global Citizenship	● Contribute to meaningful discussion on ways of granting citizenship. ● Discuss the probable solutions or alternatives to solve citizenship issue. ● Analyze the problems to be surmounted to strengthen links between the people and governments	type of rights ● Discussion: Norms of granting citizenship put forth by different countries ● Debate: Should India grant dual citizenship? ● Interpretation of newspaper articles	Short and Long Questions
December			.	
January	Nationalism a) Introducing Nationalism b) Nations and Nationalism ● Shared Beliefs ● History ● Shared National Identity c) National self-determination d) Nationalism and Pluralism Secularism a) What is Secularism? ● Inter-religious Domination ● Intra-religious Domination b) Secular State c) The western model of secularism d) The Indian model of secularism	● Understand the concepts of nation and nationalism ● Assess the strengths and limitations of nationalism. ● Identify and build an understanding on the factors related to creation of collective identities ● Examine the concept of national self-determination ● Acknowledge the need to make nations more democratic and inclusive ● Define Secularism.	● Recapitulation of definitions. ● Group interaction: The factors that help in creating the sense of collective identity Textual explanation ● Debate: Can identity claims lead to social divisions or will it strengthen and recognize multiple identities? ● Discussion and Debate: On Indian Secularism Inquiry based learning ● Comparative	Competency based questions Multiple Choice Questions Cartoon and Passage based questions Short and Long Questions Competency based questions Multiple Choice

e) Criticisms of Indian secularism ● Western Import ● Minoritism ● Interventionist ● Vote Bank Politics	● Differentiate between Inter-religious and Intra-Religious Domination. ● Recognize the concept of a Secular State. ● Compare Western and Indian Model of Secularism. ● Make an appraisal of Indian Secularism	Study: The Western model and the Indian model of secularism	Questions Cartoon and Passage based questions Short and Long Questions