

PARENT SYLLABUS –SCIENCE Class XI OCTOBER-FEBRUARY (SESSION 2020– 21)

Month / Subject	No. of period / Topics Covered	Learning Outcome	Activities	Assessments
		English		
October	Hornbill Poem: Childhood (3)	Each student will be able to -comment on the theme and diction of the poem -identify the poetic devices incorporated in the poem -enlist at least 3-4 characteristics that establish the difference between children and adults -write relevant answers	 -interpretation of the title -discussion on the topic- when and how a child leaves his childhood behind and transforms into a practical adult -critical analysis of the poem Art Integrated Activity Adding a stanza to the poem (incorporating at least one poetic device, compose poetic lines to be added to the poem, Childhood) 	 Online quiz using Google forms Class participation (written and oral) Weekly assignment/worksheet (submission of work)
	Short Writing Skill: Notice (2)	 Each student will be able to- Discuss the format and dos and don'ts -enlist the components of a good notice -write a notice answering the questions, what, where, when, how - deduce the meaning of difficult words - share their viewpoint on the theme, 'Familial bonds and the challenges faced by people while trying to maintain cordial relationships ' 	Group discussion to establish dos and don'ts, to determine the important points/details Drafting of the circulars/notices	

Month	Poem: Father to Son *** (1) Topic/ No. of Periods	 identify the poetic devices incorporated contribute meaningfully to the discussion on the questions. Learning outcome 	Reading of the text Class Discussion: Changes and challenges that every relationship faces Activities	Oral Questioning Assessments
November	Prose: The Ailing Planet: The Green Movement's Ro (3)	Each student will be able to- -reflect on the title and theme of the lesson -identify and enlist the major factors affecting the planet, Earth, adversely -critically appreciate the diction of the writer and details included in the article	 Reading of the text Group discussion on the title and theme of the article Pair activity- Students will enlist the factors that affect the health of the Earth Practice of the question-answers 	 Online quiz using Google forms Class participation (written and oral) Weekly assignment/worksheet (submission of work)
	Prose: Lesson 6: The Browning Version (3)	Each student will be able to- -reflect on the title and theme of the story -identify and enlist the major characteristics of the protagonist, Mr. Crocker Harris and other two characters Taplow and Frank -critically appreciate the diction of the writer -comment on the relationship that exists between students and teachers Each student will be able to- -comment on Albert Einstein's achievements and contribution to	 Reading of the text Class Discussion- Student-teacher bond Pair Activity-Students working in pairs will enlist the character traits of Mr. Crocker Harris, Taplow and Frank. Practice of the question-answers Art Integrated Activity Making cartoon strips- Students will make cartoon strips depicting one of their favourite moments spent in the company of their teacher/teachers 	
	Prose: Snapshots	the world of science -identify and enlist the major characteristics of Albert Einstein as a school going boy	Reading of the text Class Discussion- Student-teacher bond	

Month	Topic/ No. of Periods	Learning outcome	Activities	Assessments
	(1)		The art of leaving a distinct mark in people's heart	
	The Ghat of the Only World***		Class Discussion: How the bonds of friendship are created	Ural Questioning
		-critically appreciate the diction of the writer		
		-identify and enlist the major characteristics of the protagonist Agha Shahid		
	(3)	-reflect on the title and theme of the story		
	Letters- Placing order/ sending replies Complaints- product/service	Each student will be able to-		
	Long Writing Skills:	-draft the formal letters using grammatically correct sentences	Drafting formal letters	
		letters	Creating mind-map/ flowchart	
		-create mind-map to check their previous knowledge	Discussion of the format	
		-discuss the format	that he experienced while studying in a German school.	
		Each student will be able to-	Art Integrated Activity Monologue- Students will prepare a one- minute long monologue as Albert Einstein, talking about his feelings and dilemma	
		-discuss about the challenges faced by students during their school days	Crocker Harris, Taplow and Frank. Practice of the question-answers	
	Lesson 4: Albert Einstein at School (3)	-critically appreciate the diction of the writer	Pair Activity- Students working in pairs will enlist the character traits of Mr.	
	Lesson 4: Albert Einstein at School (3)	-critically appreciate the diction of the writer	Pair Activity-Students working in pairs	

	 -enlist the challenges that travelers face while travelling through high altitude areas -comment on the issue-how the locals and travelers spoil the natural beauty of any tourist destination -critically appreciate the diction and style of the writer 	Pair activity - Students will enlist the factors that affect the natural beauty of the tourist destinations and discuss ways to promote cleanliness and better upkeep of the places Practice of the question-answers	 Class participation (written and oral) Weekly assignment/worksheet (submission of work)
esson 5: Mother's Day 3)	Each student will be able to- -reflect on the title and theme -enlist the characteristics of the protagonists -comment on the topic-mothers' role and position in the family -critically appreciate the diction and style of the writer	 Reading of the text Class Discussion- Position of mothers in the family Pair Activity-Students working in pairs will enlist the character traits of Mrs. Pearson and Mrs. Fitzgerald. Practice of the question-answers 	
eading: ote Making and Summarization ?) ong Writing Skill: Debate	 -comprehend the gist of the given passage for note making and discuss important points -make notes on the passage read -discuss the format of the debate -identify and discuss the dos and don'ts of the given writing skill -write phrases or sentences that can be incorporated in the debate 	 Discussion of the given passage Extraction of important points from the passage Drafting notes Group discussion: dos and don'ts to determine the important points/details that should be provided in the articles Pair activity: students will discuss the topic given for writing the debate Drafting the debate 	
	ading: te Making and Summarization	ading: -comment on the issue-how the locals and travelers spoil the natural beauty of any tourist destination -critically appreciate the diction and style of the writer Bason 5: Mother's Day -reflect on the title and theme -enlist the characteristics of the protagonists -comment on the topic-mothers' role and position in the family -critically appreciate the diction and style of the writer ading: et Making and Summarization -comprehend the gist of the given passage for note making and discuss important points -make notes on the passage read -discuss the format of the debate -identify and discuss the dos and don'ts of the given writing skill -write phrases or sentences that can be incorporated in the debate	ading: -comment on the issue-how the locals and travelers spoil the natural beauty of any tourist destination -comment on the issue-how the locals and travelers spoil the natural beauty of any tourist destination -critically appreciate the diction and style of the writer Practice of the question-answers -critically appreciate the diction and style of the writer Reading of the text -creffect on the title and theme -enlist the characteristics of the protagonists -comment on the topic-mothers' role and position in the family Practice of the question-answers -comment on the topic-mothers' role and position in the family Practice of the question-answers -comment on the topic-mothers' role and position in the family Practice of the question-answers -critically appreciate the diction and style of the writer Discussion of the given passage -comment on the topic-mothers' role and position in the family Practice of the question-answers -critically appreciate the diction and style of the writer Discussion of the given passage -comprehend the gist of the given passage for note making and discuss important points Practice of the question-answers -discuss the format of the debate -discuss the format of the debate Dirating notes -discuss the format of the debate -discuss the format of the given writing skill Pair activity: students will discuss the topic writi

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	The Adventure ^{***} (1)	-identifying the difference between reality and fiction -comment on the course of actions taking place in the story	Group discussion: Alternate reality- possible or impossible	Oral Questioning
			A (* 10)	
Month	Topic/ No. of Periods	Learning outcome	Activities	Assessments
Januarv	Lesson 7: Birth	Each student will be able to-	Reading of the text	Online quiz using Google
	(3)	 -reflect on the title and theme -enlist the characteristics of the protagonist -comment on the topics: - maintaining balance between personal and professional life -role and position of doctors in the society -critically appreciate the diction and style of the writer 	Class Discussion- Position of mothers in the family Pair Activity- Students working in pairs will enlist the character traits of the protagonist Practice of the question-answers	 Online quiz using Google forms Class participation (written and oral) Weekly assignment/worksheet (submission of work)
		Each student will be able to-		
			Discussion of the format	
		-discuss the format	Creating mind-map/ flowchart	
	Latter to the school or college	-create mind-map to check their previous knowledge	Drafting formal letters	
	authorities, regarding admissions school			
	autionities- regarding autilissions, school			

		1		
	issues, requirements / suitability of	-write and share the phrases, which can be used for writing the		
		lellers		
	(2)	-draft the formal letters using grammatically correct sentences		
		analyze the personal independently		
		-analyse the passage independently		
		-find the answers to the questions		
			Group discussion to get to the	
			appropriate answers	
		-reflect on the title and theme of the poem	Writing relevant answers	
	Reading Comprehension: Unseen	-identifying the poetic devices incorporated in the poem		
	(1)		Group discussion: Characteristics of satires	
		-discussing the characteristics of satires	The humorous incidents parreted in the near and their	Oral questioning
			significance	
	The Tale of the Melon City ***			
	(1)			
Month	Topic/ No. of Periods	Learning outcome	Activities	Assessments
				-
February	ASL	listen to the audio carefully and find answers to the questions	Listening to the audio clips	Worksheet
		asked	Completing the worksheet provided	Personal interview
		express themselves clearly and confidently		
			Speaking on a given theme and answering questions during the	Rubrics for ASL
			interview	- Interaction
				- Vocabulary - Relevance
				- Coherence of ideas
				- Pronunciation
	REVISION			
****	The topics marked with asterisk in the syllabus ha	ave been deleted by CBSE for the academic year 2020-21. However,	these topics will be covered	
	through discussion in the class to bridge the learn	ning gaps.		

Physics					
Month	<u>Topic</u>	Learning Outcomes	Activities	Assessment	
Month October	Work, Energy and Power No. of classes:8	Each student will be able to- -derive relation for work done by constant and variable force. - list different types of energy - correlate between the two types of potential energy with real life examples. - derive expressions for kinetic and potential energy. - state the principle of conservation of energy. - state and prove mathematically work energy theorem. -write equation of velocity at the highest and lowest point for motion in a vertical circle. - differentiate between elastic collision and inelastic collision. -derive mathematically equations of final velocities in case of elastic collision. - relate the conclusions for various cases of elastic collision to real life situations like in nuclear power plant use of moderators.	Students will- -draw graphs for force and displacement for constant and variable force, also write at least one example from real life situation. - calculate impulse from force vs time graph. - interpret the type of collision from the values of the coefficient of restitution. Lab Activity: demonstration of experiment using O labs: To find the force constant of a helical spring by plotting a graph between load and extension.	Online quizzes using Google Form Class participation (written + oral) Weekly assignments/worksheets (submission of work)	
		- relate the conclusions for various cases of elastic collision to real life situations like in nuclear power plant use of moderators.			

Month	<u>Topic</u>	Learning Outcomes	<u>Activities</u>	<u>Assessment</u>
November	Gravitation No. of classes :8	Learning Outcomes Each student will be able to Each student will be able to- ****differentiate between gravity and gravitation with example. ****differentiate between acceleration and acceleration due to gravity. - derive mathematical equations to explain the variation of g with altitude above the surface of earth and depth below the surface of earth. - derive mathematical expressions for gravitational potential energy and potential. - differentiate between escape velocity and orbital velocity. -deduce the mathematical equations for escape velocity and orbital velocity. -list characteristics of geostationary satellites.	Activities Students will : Make their own KWL chart on acceleration due to gravity and factors on which it depends Lab activity: demonstration of experiment using O labs: *To study the relationship between the temperature of a hot body and time by plotting a cooling curve. *To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body. Art Integration Activity : Synchrony : Work in groups of four and make a power point presentation on Artificial Satellites with main focus on *Geostationary Satellites and their orbit *Applications of these satellites *Geosynchronous satellites and their characteristics *Sun synchronous satellites and their characteristics * Comparison between these satellites 	Assessment Online quizzes using Google Form Class participation (written + oral) Weekly assignments/worksheets (submission of work) Art Integration Activity

Month	<u>Topic</u>	Learning Outcomes	Activities	Assessment
November	System of Particles and Rotational Motion No. of classes :5	Each student will be able to - differentiate between centre of mass and centre of gravity. - draw diagrams and calculate the position of centre of mass of a two particle system. -explain momentum conservation and centre of mass motion. -infer the location of centre of mass of a uniform rod using mathematical calculation	Students will – - find the centre of mass of regular/irregular lamina. Lab Activity: demonstration of experiment using O labs: *To study the relation between the length of a given wire and tension for constant frequency using sonometer.	Online quizzes using Google Form Class participation (written + oral) Weekly assignments/worksheets (submission of work) Weekly Test 2 Round 1 (Nov – Dec,2020)

Month	<u>Topic</u>	Learning Outcomes	Activities	Assessment
December	System of Particles and Rotational Motion	Each student will be able to- -conclude that position of centre of mass and centre of gravity coincide for	Students will – List the location of centre of mass of regularly shaped symmetrical objects.	Online quizzes using Google Form
	No. of classes :7 (5 +2 extra class)	-conclude torque, angular momentum, moment of inertia is the rotational analogue of force, momentum and mass and derive relation between them. -state the principle of conservation of angular momentum. - list applications of conservation of	Extra Class / Lab Activity	(written + oral) Weekly assignments/worksheets (submission of work)

	angular momentum from real life		
	situation.		

Month	<u>Topic</u>	Learning Outcomes	Activities	<u>Assessment</u>
December	Properties of Bulk Matter No. of classes :13 (11 + 2 extra class)	Each student will be able to- -list the different types of stress and strain. - state Hooke's law and graphically represent the variation of stress with strain - define moduli of elasticity (Young's and Bulk's) and express them mathematically. - state Pascal's Law and discuss its application in hydraulic lift. -differentiate between streamline, laminar and turbulent flow of liquid on the basis of Reynolds's number and critical velocity. - represent them diagrammatically. - State and prove Bernoulli's theorem. -list applications of the same from real life situation (in dynamic uplift, atomizer)	Students will – List examples from real life situations where concept of elasticity is applicable. Extra Class / Lab Activity	Online quizzes using Google Form Class participation (written + oral) Weekly assignments/worksheets (submission of work) Weekly Test 2, round 2 (Dec '20 – Jan'21)

	- define surface tension and surface	
	energy.	

Month	<u>Topic</u>	Learning Outcomes	Activities	Assessment
January	Properties of Bulk Matter No. of classes :7 (5 + 2 extra class)	Each student will be able to— - explain excess pressure on curved surface on the basis of angle of contact. - differentiate between the three types of thermal expansion and deduce relation between them. - relate the three types of heat transfer to the material medium. - explain the factors on which thermal conductivity depends on the basis of the equation.	Students will – Draw the meniscus of free surface of liquid for different angle of contact and relate to observations made in day to life regarding the same. Extra Class / Lab Activity	Online quizzes using Google Form Class participation (written + oral) Weekly assignments/worksheets (submission of work)

Month	<u>Topic</u>	Learning Outcomes	Activities	<u>Assessment</u>
Month January	TopicOscillations and WavesNo. of classes :11 (7 + 4 extra 	Learning Outcomes Each student will be able to- -differentiate between SHM and periodic motion. - deduce the differential equation for SHM. -graphically represent the phase relation between displacement, velocity and acceleration of a simple harmonic oscillator. - Mathematically derive equations for time period of oscillation of a loaded spring and a pendulum. - Infer total energy conservation in SHM in case of a loaded spring, pendulum. - differentiate between free, forced and damped oscillation. -distinguish between mechanical and electromagnetic waves, transverse and longitudinal waves. -derive the displacement equation for a plane	Activities Students will – -List real life examples of SHM. -Apply the differential equation to check if a given equation represents SHM -Draw graphs to show variation of x,v and a with phase angle. -Write the equation for position of nodes and antinodes for closed organ pipe using equations for open organ pipe. Extra Class / Lab Activity	Assessment Online quizzes using Google Form Class participation (written + oral) Weekly assignments/worksheets (submission of work)
		equation for a plane progressive wave. -derive equation of resultant stationary waves in a stretched string and organ pipe.		

	Chemistry						
Month	Topic Covered No. of Periods	Learning outcome	Activities	Assessments			
Oct	Chemical Bonding and Molecular Structure contd	 Each student will be able to: Draw and explain the hybridization patterns for 	 Mentimeter hook activity (hybrid/ hybridisation & resonance) Students will make their own 3-D 	Art Integration			
	No. of periods: 8	 Draw and explain the hybridization patterns for different molecules. Apply VSEPR Theory to predict the geometries of molecules. Discuss the concept of Resonance & also draw the resonating structures. Define dipole moment and discuss its applications. Explain H-bonding and its requirements. Differentiate between inter and intra molecular hydrogen bonding. Explain the postulates of Molecular Orbital Theory. Differentiate between bonding and anti bonding molecular orbitals. Draw the energy level diagrams of homo 	 ball and stick model for covalent compounds /isomers / diamond / graphite (allotropes of C) and explain the structures of the molecules. Art Integration Activity 3-D Ball and Stick models Design your own 3-D ball and stick models for explaining the structure of compounds (covalent compounds / isomers of a given molecular formula / diamond / graphite(allotropes of C). 	 Online Quiz using Google Forms Class Participation (Oral and Written) Weekly Assignment / Worksheet (Submission of work) 			

		diatomic molecules/species to predict their magnetic behaviour, bond order and relative stability.	 Lab Activity Demonstration of Experiment (OLabs) To determine an anion and a cation present in the given salt samples.(Group 3 - Al salts-sulphate, nitrate) 	
Nov	States of Matter No. of periods: 3	 Each student will be able to: Differentiate between types of interactions- Intermolecular forces vs Thermal interactions. Explain the characteristics of gaseous state. State, explain and derive gas laws- (Boyle's Law, Charle's Law, Ideal gas equation, Dalton's Law, Gay Lussac's law and Avogadro law). Draw graphical representations of the above gas laws. Solve numericals related to the above gas laws. Explain the reasons for deviation from ideal gas behaviour and equation of state for real gases – ie. Vander Waal equation. 	 Mentimeter hook activity (one phenomena in daily life involving effect of P, V, T, n on behaviour of gases). Students will be able to relate and apply the gas laws in daily life activities. Lab Activity Demonstration of Experiment (OLabs) To determine an anion and a cation present in the given salt samples.(Group 5 - Ba, Sr, Ca salts- chloride , nitrate) 	 Online Quiz using Google Forms Class Participation (Oral and Written) Weekly Assignment / Worksheet (Submission of work) Weekly Test II (Round 1) Nov-Dec
Nov	Organic Chemistry:Basic principles & techniques	 Each student will be able to: Explain the nature of carbon and formation of organic compounds. Identify the functional group and homologous series for a given molecular/structural formula. Name, classify and draw the structures of the 	 Drawing structures of organic compounds, isomers and structure of carbocations, carbanions and free radicals. 	Online Quiz using Google Forms

contd	No. of periods: 10	 organic compounds according to IUPAC nomenclature. Name aliphatic, aromatic and polyfunctional compounds as per IUPAC nomenclature. Explain the types of structural and stereo isomerism and draw the structures of the isomers for a given molecular formula. Differentiate between homolytic and heterolytic fission. Draw and explain the structure of reaction intermediates & explain their stability orders. Define and differentiate between Inductive effect and Electromeric effect. Explain hyperconjugation and resonance effects. Draw resonating structures of the given molecule. Solve reasoning questions on above effects. 	 Lab Activity Demonstration of Experiment (OLabs) To determine an anion and a cation present in the given salt samples. (Group 5 - Ba, Sr, Ca salts) contd 	 Class Participation (Oral and Written) Weekly Assignment / Worksheet (Submission of work)
Dec	p-Block elements No. of periods: 4	Each student will be able to:	 Prepare / Observe model for checking conducting nature of graphite. 	Online Quiz using Google Forms
		 Discuss the trends in periodic, physical and chemical properties of group 13 elements. Explain anomalous behaviour of Boron. List uses of group 13 elements. Discuss the trends in periodic, physical and chemical properties of group 14 elements. Draw the structures of allotropes of carbon. Explain anomalous behavior of Carbon. List uses of group 14 elements. 	 Lab Activity Demonstration of Experiment (OLabs) / Extra class Common ion effect , lonic product, solubility product 	 Class Participation (Oral and Written) Weekly Assignment / Worksheet (Submission of work) Weekly Test II (Round 2) Dec-Jan

Dec contd	Hydrocarbons No. of periods: 12	 Each student will be able to: Discuss classification and IUPAC nomenclature of hydrocarbons. Draw structures of isomers for a given molecular formula. Explain the preparation methods, properties of ethane, ethene, ethyne and Benzene and write their respective equations. Draw the Sawhorse & Newmann projections for ethane and discuss their stabilities. Comment on the name reactions (Wurtz, Kolbe). Explain Huckel's rule for aromaticity. Explain the hybridization in the structure of benzene. Explain the mechanism of electrophilic substitution reactions of Benzene. Predict the directive influence of substituents in monosubstituted benzene. 	 Students will make their own 3-D ball and stick model for conformations of ethane. Drawing projection formulae of hydrocarbons, resonating structures of Benzene. Practice mechanisms for aromatic electrophilic substitution reactions. Lab Activity Demonstration of Experiment (OLabs) / Extra class 	 Online Quiz using Google Forms Class Participation (Oral and Written) Weekly Assignment / Worksheet (Submission of work)
		 Solve interconversions based on the reactions of hydrocarbons. 	(OLADS) / EXITA CIASS	
Jan	Chemical Equilibrium	Each student will be able to:Explain the dynamic nature of physical and	 Mentimeter hook activity- term equilibrium. 	Online Quiz using Google Forms

No. of periods: 12	 chemical equilibrium. Describe the characteristics of chemical equilibria. State and explain law of mass action & chemical equilibrium. Write expression for equilibrium constant . Derive the relation between Kp &Kc , Kc & Q. Explain the characteristics, expression, units, applications of K. Discuss the types of equilibria& write expressions for Kc. State Lechatlier's Principle & solve problems related to it. Discuss concept of ionic equilibrium in solution-Strong & weak electrolytes. Derive Ostwald's Law. Discuss ionic product of water & solve numericals based on it. Justify solubility equilibria of sparingly soluble salts and calculate solubility product constant & its applications. Explain common ion effect & buffers.Apply common ion effect in qualitative analysis 	 Differentiate between physical and chemical equilibria. Brainstorming for Lechatliers principle, common ion effect , solubility equilibria. Draw a concept map for different concepts of acid and base. 	 Class Participation (Oral and Written) Weekly Assignment / Worksheet (Submission of work)
		Lab Activity Demonstration of Experiment	

		(OLabs) / Extra class	
Feb	Revision and Exams		

	Biology						
MONTH	NO. OF PERIODS/TOPICS COVERED	LEARNING OUTCOMES	ACTIVITIES	ASSESSMENT			
October	Body Fluids and Circulation (3)	 Each student will be able to mention the use of ECG and pacemaker. state the significance of double circulation name any two disorders related to circulatory system 	 Diagrammatic presentation of a standard ECG and identification of the different segments in it Representation of schematic plan of blood circulation in humans Demonstration of experiment (OLABS) Tissues and diversity in shape and size of animal cells (mammalian blood smear) 	 Online quiz using Google forms Class participation (written and oral) Weekly assignment/worksheet (submission of work) 			
	Excretory Products and their elimination (5)	 Each student will be able to: give reason as to why terrestrial animals are generally either ureotelic or uricotelic but not 	 Identification of the parts of human excretory system and drawing its labelled diagram Diagrammatic representation of the longitudinal section of 	 Online quiz using Google forms Class participation (written and oral) 			

	ammonotolio		kidnov as well as a pophran		
	ammonotelic		Numey as well as a nephilon		
			snowing blood vessels, duct	•	vveekiy
•	name the parts of human		and tubule		assignment/worksheet
	excretory system				(submission of work)
		•	Representation of the		· · · · · · · · · · · · · · · · · · ·
•	draw labelled diagram of		reabsorption and secretion of		
	human excretory system		major substances at different		
	numun exercicity system		narts of the nenhron		
	surfain the structure of				
•	explain the structure of				
	kidney and nephron with the	•	Diagrammatic representation		
	help of diagrams		of a nephron and vasa recta		
			showing counter current		
•	describe the process of		mechanisms		
	urine formation				
		•	Demonstration of experiment		
	state the function of	-	(OLABS)		
•			Tost for processo of sugar in		
	proximal convoluted tubule,				
	Henle's loop, distal		unne.		
	convoluted tubule and		l est for presence of albumin in		
	collecting duct		urine.		
•	explain the counter current		**** Test for the presence of		
	mechanism		urea in urine		
	moondmorn		****Test for the presence of		
	departies the requisition of		bile salts in urine		
•					
	kidney function				
•	state the role of lungs, liver				
	and skin in the elimination of				
	wastes from the body				
	,				
	mention any two disorders				
•	of the excretory system				
	OF THE EXCLETORY SYSTELL				

November	Locomotion and Movement (4)	 Each student will be able to: mention the structure and function of skeletal muscle explain the structure of contractile proteins describe the sliding filament theory of muscle contraction 	•	Comparison of actin filament and myosin filament with the help of diagrams Diagrammatic representation of sliding filament theory of muscle contraction Demonstration of experiment (OLABS) Tissues and diversity in shape and size of animal cells (squamous epithelium, smooth, skeletal and cardiac muscle fibers)	•	Online quiz using Google forms Class participation (written and oral) Weekly assignment/ worksheet (submission of work)
	Locomotion and Movement (2) ****	 Each student will be able to: mention basic types of movements in various animals. explain the skeleton system of humans describe the various joints list the different disorders of bones in humans. 	•	Diagrammatic representation of human skull, vertebral column, ribs and rib cage as well as pelvic and pectoral girdle Demonstration of experiment (OLABS) Human skeleton and different types of joints with the help of virtual images/models only.	•	Online quiz using Google forms Class participation (written and oral) Weekly assignment/ worksheet (submission of work)

Neural Control and Coordination (5)	 Each student will be able to: explain nervous system in humans. describe the structure and types of neurons explain the generation, conduction and transmission of nerve impulse differentiate between CNS and PNS name the three major parts of brain and explain their functions 	 Diagrammatic representation of structure of neuron and impulse conduction through an axon Comparison of thalamus and hypothalamus as well as cerebrum and cerebellum Diagrammatic representation of sagital section of human brain 	 Online quiz using Google forms Class participation (written and oral) Weekly assignment/ worksheet (submission of work) Weekly test II Round 1 (Nov-Dec)
Neural Control and Coordination (2) ****	 Each student will be able to: explain reflex action and reflex arc state two examples of reflex action. describe the structure and function of human eye and ear 	 Diagrammatic representation of reflex action Diagram showing parts of an eye Diagrammatic view of ear Diagrammatic representation of the sectional view of cochlea 	 Online quiz using Google forms Class participation (written and oral) Weekly assignment/ worksheet (submission of

		 explain mechanism of vision and hearing 		work)
December	Chemical Coordination and Integration (6)	 Each student will be able to: list the various endocrine glands and identify their location in the human body explain the role of hypothalamus name the hormones secreted by endocrine glands and state their functions mention the functions of hormones of heart, kidney and gastrointestinal tract. explain mechanism of hormone action explain Graves' disease and Addison's disease 	 Identification of endocrine glands based on their location in the human body Diagrammatic representation of pituitary and its relationship with hypothalamus Diagrammatic representation of the mechanism of hormone action 	 Online quiz using Google forms Class participation (written and oral) Weekly assignment/ worksheet (submission of work)
	The Living World (2)	Each student will be able to:state characteristics of living	Discussion on important characteristics of life	Online quiz using Google forms

	organisms		 Class participation (written and oral) Weekly assignment/ worksheet (submission of work)
The Living World (2) ****	Each student will be able to:explain the various	Iist five zoological parks of India	 Online quiz using Google forms
	 describe the different taxonomical aids 	Demonstration of experiment (OLABS) Tissues and diversity in shape and size of plant cells (palisade cells, guard cells,	 Class participation (written and oral)
		parenchyma, collenchyma, sclerenchyma, xylem and phloem) through temporary and permanent slides	 Weekly assignment/ worksheet (submission of work)
Biological classification (6)	Each student will be able to:	Comparison of the characteristics of five kingdoms	Online quiz using Google forms
· · /	 compare the characteristics of five kingdoms classify and explain the 	 Comparison of the features of Monera, Protista and fungi 	 Class participation (written and
	types of bacteria		oral)
	 explain types and classification of Protista and 	•	 Weekly assignment/ worksheet

		 fungi describe the features of Plantae and Animalia 		 (submission of work) Weekly test II Round 2 (Dec-Jan)
January	Plant Kingdom (4)	 Each student will be able to: explain the characteristics of algae, bryophytes, pteridophytes and gymnosperms compare the characteristics of the divisions of algae distinguish between bryophytes and pteridophytes 	 Comparison of characteristics of divisions of algae Comparison of bryophytes and pteridophytes Demonstration of experiment (OLABS) Specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen. 	 Online quiz using Google forms Class participation (written and oral) Weekly assignment/ worksheet (submission of work)
	Plant Kingdom (2) ****	 Each student will be able to: explain the characteristic features of angiosperms draw life cycle of an angiosperm 	 Diagrammatic representation of life cycle of an angiosperm Demonstration of experiment (OLABS) Different modifications in roots, stems and leaves. 	 Online quiz using Google forms Class participation (written and oral)

		Different types of inflorescence (cymose and racemose).	
Animal Kingdom (6)	 Each student will be able to: explain the different features used as basis of animal classification state the characteristics of different phyla and give one example of each compare chordates and non-chordates differentiate between bony and cartilaginous fishes state the characteristics of various classes of vertebrates compare different phyla of animal kingdom 	 Comparison of chordates and non-chordates Comparison of salient features of different phyla in the animal kingdom Identification of organisms from their pictures and relating them to different phyla Demonstration of experiment (OLABS) Virtual specimens/ slides/models and identifying features of - Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn, silkworm, honeybee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit. <u>Art Integration</u> 'PowerPoint Presentation' 	 Online quiz using Google forms Class participation (written and oral) Weekly assignment/ worksheet (submission of work) Art integrated learning

	Students will be divided into groups. Each group consisting of three students will make a power point presentation on the different phyla in the animal kingdom
F -hausan	
repruary	Kevision and Exams
****	The topics marked with asterisk in the syllabus have been deleted by CBSE for the academic year 2020-21. However, these topics will be covered through discussion in the class to bridge the learning gaps.

Computer				
Month/ T. Days No of Periods Topics/Subtopics	Learning Outcomes	Activities	Assessment	
Sorting algorithm: bubble and insertion sort; count the number of operations while sorting. ******	Students will be able to :- > follow logical sequence of statements Create programs based on Sorting algorithms: bubble and insertion sort; *****	Art Integration	Worksheets & Assignments Lab Work	
Introduction to Python modules: Importing math module (pi, e, sqrt, ceil, floor, pow, fabs, sin, cos, tan); random module (random, randint, randrange), statistics module (mean, median, mode	Use random functions in game creation	Creating a game using concepts of randomization(stone/paper/scissor)		
Unit III: Society, Law and Ethics	Students will be able to		Worksheets & Assignments	
 Cyber safety: safely browsing the web, identity protection, confidentiality, social networks, cyber trolls and bullying. Appropriate usage of social networks: spread of rumours, and common social 	=> define terms related to Cyber safety: safely browsing the web, identity protection, confidentiality, social networks,		Periodic II-Examination	
networking sites (Twitter, LinkedIn, and Facebook) and specific usage rules.	cyber trolls and bullying	Art Integration	Round1	
 Safely accessing web sites: adware, malware, viruses, trojans Safely communicating data: secure connections, eavesdropping, phishing and identity verification. 	=>Appreciate Use social networks: spread of rumors, and common social networking sites (Twitter, LinkedIn, and Facebook) and specific usage rules.	Comic Strip Designing	Python programming- Lists, tuples and dictionary- Boolean Algebra Practical	
 Intellectual property rights, plagiarism, digital rights management, and licensing (Creative Commons, GPL and Apache), open source, open data, privacy. 	=>Learn Safe access to web sites:			
 Privacy laws, fraud; cyber-crime- phishing, illegal downloads, child pornography, 	=>define eavesdropping, phishing and identity			

scams; cyber forensics, IT Act, 2000.	verification.		
 Technology and society: 			
 understanding of societal issues and cultural changes induced by technology. 			
 E-waste management: proper disposal of used electronic gadgets. 			
 Identity theft, unique ids and biometrics. 			
 Gender and disability issues while teaching and using computers. 			
Unit III: Database Management (XII)	Students will be able to :		Worksheets & Assignments
Database Concepts: Introduction to database concepts and its need.	Work with the following	Art Integration	Lab Work
Relational data model: Concept of domain, relation, tuple, attribute, degree, cardinality, key, primary key, candidate key, alternate key and foreign key; Structured Query Language:	Define databases and the need for it, relations, keys, primary key, foreign key; use SQL commands to create a table, keys, foreign keys; insert/delete an entry, delete a table	Brochure Designing	Periodic II-Examination Round 2
Manipulation Language;	⇒ Execute SQL commands: select. project. and		Society, Laws and ethics-
Data Types: number / decimal, character / varchar / varchar2, date; SQL commands: CREATE TABLE, DROP TABLE, ALTER TABLE, UPDATESET, INSERT, DELETE; SELECT, DISTINCT, FROM, WHERE, IN, BETWEEN, LIKE, NULL / IS NULL, ORDER BY,GROUP BY, HAVING;	join;		Python programming- Lists, tuples and dictionary Practical
SQL functions: SUM (), AVG (), COUNT (), MAX () and MIN ();			
Joins: equi-join and natural join			

Final Exams

		Physical Educa	ation	
OCTOBER	Fundamentals of Anatomy, Physiology & Kinesiology in SportsDefinition and Importance of Anatomy, Physiology & KinesiologyFunction and Skeleton System, Classification of Bones & Types of JointsProperties and Functions of Muscles Function & Structure of Respiratory System and Circulatory System Equilibrium – Dynamic & Static and Centre of Gravity and its application in sports	Each student will be able to Know the function of Skeleton System, Classification of Bones & Types of Joints Understand the Properties and Functions of Muscles Know the Function & Structure of Respiratory System and Circulatory System Describe Equilibrium	Discussion on importance of Anatomy, Physiology & Kinesiology Discussion on Dynamic & Static and Centre of Gravity and its application in sports Students to discuss the textual based questions	Questions will be discussed in the class MCQ's
				Questions for home assignment
NOVEMBER	Psychology & Sports Definition & Importance of Psychology in Physical Education & Sports Define & Differentiate Between Growth & Development Developmental Characteristics at Different Stages of Development Adolescent Problems & Their Management	Each student will be able to Know the Definition & Importance of Psychology in Physical Education & Sports Define & Differentiate Between Growth & Development Know Developmental Characteristics at Different Stages of Development Understand Adolescent Problems & Their Management	Discussion on Importance of Psychology in Physical Education & Sports, Adolescent Problems & Their Management Discussion on Growth & Development, Developmental Characteristics at Different Stages of Development Students to discuss the textual based questions	Questions will be discussed in the class MCQ's Questions for home assignment
				Questions will be discussed in the class

NOVEMBER	Training and Doping in Sports Meaning & Concept of Sports Training Principles of Sports Training Warming up & limbering down Skill, Technique & Style Concept & classification of doping Prohibited Substances & their side effects Dealing with alcohol and substance abuse	Each student will be able to Know the meaning & Concept of Sports Training Understand the Principles of Sports Training Describe Warming up & limbering down Define Skill, Technique & Style Know Concept & classification of doping Understand Prohibited Substances & their side effects Know about alcohol and substance abuse	Discussion on Principles of Sports Training Warming up & limbering down Discussion on Skill, Technique & Style Concept & classification of doping Students to discuss the textual based question	Questions will be discussed in the class MCQ's Questions for home assignment

Economics					
<u>OCTOBER</u>	Revenue Relationship between different kinds of revenue.	Each student will be able to a. Define revenue b .Discuss the different types of revenues. c.Derive the condition for equilibrium at the	Learning centres Brain storming activities will be used for explaining.	Class test worksheets	
	Producers Equilibrium Supply-Concept, Supply schedule Supply function	producers level.***** d.Derive the relationships between different total revenue and marginal revenue. e.Calculate the different revenue applying	Oral Questioning Think pair and share		
	Law of Supply Price Elasticity	the formulae. Numericals	AMP technique will be used.		
			Group discussion based on topics related to cost and revenue For example, Reliance		

	-	-		-
			Fresh has announced the slashed prices.	
			revenue.	
			Survey to be conducted by students to	
			assess the cost and revenue	
			A firms supply curve shows its supply function. Comment	
			At a point of intersection of two supply curves, flatter curve shows higher elasticity of supply.	
			Numericals on price elasticity	
			Will the coller always he ready to coll more of	
			will the seller always be ready to sell more of	
			a commonly at a higher price in the market?	
NOVEMBED		Each shales to dilla a bla ta		
NOVEMBER	THEORY OF PRICE EQUILIBRIUM- Markets	Each student will be able to	Giving the different market situations with	
	Characterizing the different kinds of market.		reference to changes in demand and supply,	worksneets
		Define a market	the students will make the diagrams and	
		identify the different types of market on the	show the changes that occur	
		basis of the characteristics.	correspondingly.	
		Derive the price equilibrium and the quantity		
		exchanged in the market with the given	Home Assignment based on demand supply	
		market conditions.*****	and equilibrium	
		Discuss the derivation of the changes in		
		the equilibrium price and quantity under	Diagrammatic presentation of the different	
		different market conditions. *****	market situation.	
			How is the demand curve under monopolistic	
			competition different from demand curve of a	
			tirm under perfect competition? 3. Why is a	
			tirm under perfect competition a price taker?	
			Explain three features of perfect competition.	
			Explain the implication of large number of	
			seller feature of perfect competition.	

NOVEMBER	Micro- Price	Each student will be able to	Giving the different market situations with	Class test
	equilibrium		reference to changes in demand and supply,	worksheets
	derivation of the price equilibrium and	Derive the price equilibrium and the quantity	the students will make the diagrams and	
	quantity exchanged in the market with	exchanged in the market with the given	show the changes that occur	
	both demand and supply.	market conditions*****	correspondingly.	
	Price Control:-Floor price and Ceiling	discuss the derivation of the changes in		
	price.	the equilibrium price and quantity under	Home Assignment based on demand supply	
		different market conditions *****	and equilibrium	
			Diagrammatic presentation of the different	
			market situation.	
			What will happen if the price prevailing in the	
			market is above the equilibrium price.	
			Representing situation based diagrams	
DECEMBER	MEASURES OF DISPERSION	Each student will be able to:	Statistics for Economics	Periodic test 4/12/20
		Computation of mean deviation and quartile	NCERT	
	MEASURES OF CORRELATION	deviation. *****	Statistics for Economics	
	KARL PEARSONS METHOD	Compute Standard deviation.	N M Shah	
		Each student will be able to :	http://www.blog.gurukpo.com/wp-	
			content/uploads/2012/04/Methods-of-	
	SPEARMAN S METHOD	Calculate correlation by karl pearson's	Determining-Correlation.jpg.	
		method .		
		rank correlation by Spearman's method. *****	Numerical questions	
DECEMBER	Index Numbers	Each student will be able to :	Worksheet on Index numbers	
		Identify 3 reasons for the need to find	Newspaper articles.	
	Meaning	indeces for economic growth and compare.	What are index numbers?	
Index Numbers		Compute Unweighted index and Weighted	How do they determine the cost of living?	
Meaning	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	index	Numerical Worksheet	
Types				
A Least				
JANUARY '21	INDIAN ECONOMY ON THE EVE OF	Each student will be able to :	Talk to your Parents and Grand	Periodic test 13/1/21
	INDEPENDENCE		parents and gather information on the	
		Agriculture sector and industrial sector on the	situation of Indian population during	
	FIVE YEAR PLANS	eve of independence with the help of concept	the British rai (FL)	
	a. Common Goals of Five Year Plans	mapping.		

Meaning of Five Year Plans b. Objectives of Planning. c. Analysing the importance of Planning in development. d. Features of Economic Policy under Planning till 1991. e. Achievement of the Goals of planning f. Failures of Planning	Foreign trade, demographic conditions, Infrastructure, occupational structure on the eve of independence with the help of BALA, real life examples and storytelling method. Good and bad impacts of British government on Indian Economy with the help of think pair and share method. The importance of planning in life-Individual as well as an economy To comprehend the meaning of planning by think pair and share method. Identify the goals of five year plan Analyze the importance of planning in development and the achievements as well as the failures of planning with concept mapping	 Students will be asked to write positive and negative impacts of British Government on Indian Economy(L) Oral questions will be asked on meaning de-industrialization, Zamindari system ,Mahalwari system,Ryotwari system (AB) Assignment will be given from text book and reference book Class Worksheets on Planning Planning an activity in school 	
		Planning in India?	

	Mathematics					
October (10)	Straight Lines (6)	Students will be able to: *find the equation of a line using the various forms of line viz. Point-slope form, Two-point form, Slope- intercept form, Intercept form, Normal form *calculate the distance of a point from a line	Students will practice solved examples of NCERT at home which will help in further solving questions from Exercises Students will solve Exercises from chapter 10 (NCERT) Students will solve questions from Assignment Art Integration Finding slope of a line	Oral questions Few questions from Ex- 10.2,10.3, Miscellaneous Exercise, ****10.4, ****10.5 of NCERT Assignment Online Quiz: MCIs 10QsX1m=10m		

	Conic Sections (3)	 * find the distance between two parallel lines ****perceive the concept of family of lines ****perceive the concept of shifting of origin 		
	Lab Activity (1)		Students will practice solved examples1,2,3,4 from Ch 11 of NCERT at home which will help in further solving questions from Exercises Students will solve questions from Ex-11.1 of NCERT Lab Activity- verify the graph of linear inequality by 5x+ 4y-40<0 of the form ax + by +c <0	Oral questions Few questions from Ex- 11.1 of NCERT
		Students will be able to: *analyze a conic section as a section of double-napped cone. *define a conic section *list the various types of conic Sections *find the equation of a circle if its radius and coordinates of centre are given and vice-versa		Neatness and Accuracy of work done
November (17)	Conic Sections (4)	Students will be able to: *define a parabola and recognize/find the standard equation of parabola *define/find the coordinates of focus, axis, equation of	Students will practice solved examples of NCERT at home which will help in further solving questions from Exercises Students will solve Exercises from chapter 11 (NCERT) Students will solve questions from Assignment Art Integration:	Oral questions Few questions from Ex- 11.2,11.3 and11.4 of NCERT Assignment Online Quiz: MCIs
		unectrix and length of latus	Fonderstanding various snapes of conic section	10QSA111=1011

Sequences and	rectum of a parabola *define an ellipse and recognize/find the standard equations of an ellipse *state the relationship between semi-major axis, semi-minor axis and the distance of focus from the centre of the ellipse *define eccentricity *define/find the coordinates of foci, vertices, lengths of major axis, and minor axis, eccentricity and length of latus rectum of the given ellipse *define a hyperbola and recognize/find the standard equations of a hyperbola *define/find the coordinates of	Students will practice solved examples of NCERT at home which will help in further solving questions from Exercises Students will solve Exercises from chapter 9 (NCERT) Students will solve questions from Assignment	
Series (7)	foci, vertices, eccentricity and length of latus rectum of the		Oral questions
	gronnyporoda	Lab Activity: Construct a Parabola and an ellipse Introduction to Permutation	Ex- 9.1,9.2,9.3, Miscellaneous
	Students will be able to: *recall the definition of sequence	https://www.khanacademy.org/math/precalculus/x9e81a4f98389efdf:prob- comb/x9e81a4f98389efdf:combinatorics-precalc/v/permutation-formula	Exercise (Until Q No. 20) and ****9.4 of NCERT
	& series *recall the definition of an A.P		Assignment Online Quiz: MCIs
	and the formula for its nth term		10QsX1m=10m
	terms of A.P		

Lab Activity (1) Permutations and Combinations (5)	numbers a & b *define a G.P *find the nth term of a G.P *state the formula for sum of n terms of G.P *find the sum to infinity of a G.P *define G.M between two numbers a & b *recognize the relationship between A.M and G.M ****recognize a special series. *****list the formulas for the sum of squares, sum of cubes of first n natural numbers. ****evaluate the sum to n-terms of a special series Students will be able to *state the fundamental principle	Neatness and Accuracy of work done
	of Addition / Multiplication *define permutation *find the number of	

		permutations of n different objects with or without repetition		
December (21)	Permutations and Combinations (7)	Students will be able to: *state the fundamental principle of Addition / Multiplication *define permutation *find the number of permutations of n different objects with or without repetition *find the number of permutations when all the objects are not	Students will practice solved examples of NCERT at home which will help in further solving questions from Exercises Students will watch the video on Combination <u>https://www.khanacademy.org/math/precalculus/x9e81a4f98389efdf:prob- comb/x9e81a4f98389efdf:combinations/v/introduction-to-combinations</u> Students will solve Exercises from chapter 7 (NCERT) Students will solve questions from Assignment	Oral questions Few questions from Ex- 7.1,7.2,7.3,7.4 and Miscellaneous Exercise of NCERT Assignment Online Quiz: MCIs 10QsX1m=10m
	Probability (7)	distinct objects *define combination *differentiate btw Permutation and Combination *apply the various formulas of "P, and "C, in solving statement questions	Lab Activity: To find the number of ways in which three cards can be selected from given 5 cards To write a sample space , when a coin is tossed once, twice, thrice and four times Students will practice solved examples of NCERT at home which will help in further solving questions from Exercises Students will solve Exercises from chapter 16 (NCERT) Students will solve questions from Assignment	Oral questions Few questions from Ex- 16.1,16.2,16.3 and Miscellaneous Exercise of NCERT Assignment Online Quiz: MCIs 10QsX1m=10m
	Lab Activity	Students will be able to: recall the concept of probability *recall the definition of random experiment, sample space *write the sample space of a Random experiment *list the various kinds of events : mutually exclusive,	Introduction: https://www.khanacademy.org/math/precalculus/x9e81a4f98389efdf:matrices/x9e81a4f98389efdf:mat- intro/v/introduction-to-the-matrix	Neatness and Accuracy of work done

 (2)	avbaustiva	
(2)		
	events	
	*prove events to be mutually	Oral questions
	Exclusive or exhaustive	Few questions from
	*state and apply the formulae	Chapter Ex 3.1, 3.2,
	for	3.3 and Miscellaneous
	probability of an event	(NCERT),
	*state the Addition formulae of	****Ex-3.4
Class XII Matrices	Probability	
(Chapter 3)		
(5)		
(0)		
	Studente will be able to:	
	*identify a ij element of a matrix	
	*apply the basic operations of	
	+, -	
	*define various types of	
	matrices	
	*solve the problem of equality	
	of	
	matrices	
	*define transpose of a matrix	
	*define symmetric and skew	
	symmetric matrices	
	*find the transpose of a matrix	
	*differentiate between	

		symmetric. and skew symmetric matrices *define inverse of a matrix. *****find the inverse using transformation method		
January (14)	Determinants (Chapter 4) (7)	Students will be able to: *Perceive the concept of Determinants, minors, cofactors, adjoint and inverse ****Properties of Determinants * find the area of triangle * solve the system of equations using matrices	Students will practice solved examples of NCERT at home which will help in further solving questions from Exercises Students will solve Exercises from Matrices and Determinants (NCERT- XII)- Chapter 3 and 4	Oral questions Few questions from Chapter 4 - Ex 4.1, 4.3 and Miscellaneous (NCERT)
	Revision for Class XI (7)			Online Quiz using Google Forms Class Participation (Written and Oral)
February	Revision for Class XI			Online Quiz using Google Forms Class Participation (Written and Oral) Final Examination
****	The topics marked with asterisk in the sy gaps.	yllabus have been deleted by CBS	E for the academic year 2020-21. However, these topics will be covered through discussion in the class t	to bridge the learning

	Psychology					
October	Chapter 5: Sensory, attentional and perceptual process contd. Principles of perceptual organization Perception of space, depth and distance Perceptual constancies Illusions Socio-cultural influences on perception Chapter 6: Learning	 Each child will be able to: Explain principles of perceptual organization Describe perceptual constancies Explain cues of depth perception Explain different types of illusions State the role of socio-cultural factors in perception 	 Students will do the activity on convergence with the help of a pencil Muller Lyer illusion will be administered through APA virtual lab 	 Assignme nts Practice Sheet MCQ 		
	 Introduction Nature of Learning Paradigms of Learning Classical Conditioning (Determinants of Classical Conditioning) Operant/Instrumental Conditioning (Determinants of Operant Conditioning) Key Learning Processes Observational Learning Cognitive Learning Learning Disabilities ****Application of Learning Principles 	 Explain the nature of learning State the paradigms of learning Explain classical conditioning Explain operant conditioning Differentiate between reinforcement and punishment Describe observational learning 	Discussion of old childhood memories that demonstrate observational learning.	 Assignme nts Practice Sheet MCQ 		

		 State the different types of recall in verbal learning Describe learning disabilities Explain how corrective behaviours can be learnt and maladaptive behaviours can be unlearnt through the application of learning principles. 		
November	 Chapter 7: Human Memory Introduction Nature of Memory Information Processing Approach : The Stage Model Memory Systems : Sensory, Short-term and Long-term Memories Types of Long-term Memory Memory as a Constructive Process Nature and Causes of Forgetting Forgetting due to Trace Decay, Interference and Retrieval Failure Enhancing memory 	 Each child will be able to: Describe the stage model Explain types of memory as per Atkinson Shiffrin Model State types of long term memories Explain memory as a constructive process State causes of forgetting Describe nature of forgetting Explain trace decay theory Explain Interference theory Describe retrieval cues Explain forgetting due to lack of retrieval cues Describe ways to improve memory 	 Memory tasks Recollecting and writing two important life events – episodic memory Game for explaining types of processing 	 Assignme nts Practice Sheet MCQ
December	****Chapter 8: ThinkingProblem solving	Each child will be able to: • Describe mental set and functional fixedness	 Imagination of an ice cream based on verbal cues to explain imagery Problem solving tasks (analytical questions) 	 Assignme nts Practice

	Reasoning	 Explain inductive and deductive reasoning 		Sheet • MCQ
	 ****Chapter 9:Motivation and Emotion Maslow's Hierarchy of Needs 	 Explain Maslow's hierarchy of needs theory 	Computing IQ activityDiscovering the attributes of intelligent persons	
	Class XII syllabus Chapter 1: Variations in psychological attributes Introduction Individual Differences in Human Functioning Assessment of Psychological Attributes Intelligence Intelligence Individual Differences in Intelligence Culture and Intelligence Emotional Intelligence Special Abilities Creativity	 Explain psychometric and information processing approach to intelligence Explain the various theories of emotions Describe the role of culture in intelligence Explain emotional intelligence Explain intellectual deficiency and giftedness Describe creativity 		
January	Class XII syllabus - Chapter 3: Meeting life challenges Introduction	Each child will be able to: Explain nature of stress State sources of stress	 Responding on a rating scale. Task to analyze problem focused coping from given situations. Creative visualization 	 Assignme nts Practice Sheet

	 Nature, types and sources of stress A Measure of stressful life events Effects of stress on psychological functioning and health Examination anxiety Stress and health general Adaptation Syndrome Stress and Immune System Coping with Stress Stress management techniques promoting positive health and well-being Life Skills Resilience and Health 	 Differentiate between eustress and distress Explain effects of stress on psychological functioning Describe GAS model Explain the relationship between stress and immune system Explain ways of coping with stress Explain the various stress management techniques Explain life skills Describe resilience 	• MCQ
February	Revision of class XI entire syllabus	Each child will be able to explain all concepts learnt and describe all theories	 Assignme ntsMCQ

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