

KALKA PUBLIC SCHOOL BPTP (PARKLANDS). SECTOR-76, FARIDABAD, HARYANA Contact : 0129-4096099, 9643443345 | www.kpsbptp.com





Medical / NON Medical)

EXTENSIVE CURRICULUM



MONTH: APRIL

Month & <u>No. of</u>	<u>Subject</u>	<u>Lesson No.</u>	<u>Lesson Name&</u> <u>topic</u>	<u>Learning objective</u>	Pedagogy (<u>Activities and</u>	<u>Learning</u> Outcome	<u>Assessment</u>	<u>Life Skills</u>
days					resources			
	ENGLISH	Literature	Hornbill: The Portrait of a Lady A Photograph (Poem) Grammar: Editing, Rearranging jumbled words	Students will be able to identify , analyze , interpret and describe the critical ideas , values and themes that appear in the literary prose and poems. The student is able to: (i) master the Mechanics of writing; the use of correct punctuation marks and capital letters; (ii) spell words correctly; (iii) write neatly and legibly with reasonable speed; (iv) use appropriate vocabulary; (v) use correct grammatical items; (vi) write coherently in more than one paragraph; (vii) complete accurately and fluently semi controlled compositions like stories, events, processes etc; (viii) write description of people, places and things and respond imaginatively to textual questions; (ix) write pragraphs, letters. (personal and official)	PPT Screen Sharing Explanation Experiential Learning Critical Communication and Collaboration	Students will be able to follow instructions and directions. Make inferences and judgment. Present various interpretatio ns of the poem and prose creatively and critically.	All the competencies will be assessed through subject enrichment activities like creativity and innovation, critical thinking, communicatio n, collaboration Assignments, Worksheets, Tests	Students will be able to Critically analyze the prose and poetry. Appreciate the beauty , rhyme, style, genre of the poem and prose. Students will be able to apply the grammar rules as per need in framing sentences and ideas while writing using the apt formats.

	simple, narrative pieces, reports, notices, messages, diary entries etc; (x) make notes and summarise; (xi) edit		
	written material (xii)		
	expand notes.		

# PHYSICS	CHAPTER 01	Physical world and units and Measurement	students will be able to know about the physical quantities and their measurements. they will also be able to know about the dimensions of a physical quantities and their uses to (1) To derive the formulas. (2) To check the correctness of a given relation. (3) To convert a physical quantities from one system to other system. They will also came to know about the principle of homogeneityas well as significant figures and rounding off.	 Recapitulation of the facts and information. Explanation of topics on board in a clear manner. using smart board and PPT and pdfs. rediscussion on the topics if required. Experiments- To measure the diameter of a small spherical /cylindrical body. using vernier calliper. To measure the depth of a given cylinder using vernier calliper. Interactive Interactive Interacti	students are able to understand that what are units and their Dimensions as well as their uses in the mentioned topics.	Assignment of Numericals on the basis of chapter discussed in the class. Ncert questions and numericals ,conceptual questions ,Mcqs , Assertion Reason and case study.	Awareness,Anal ytical skills,problem solvings,observ ational skills, critical thinking,creativi ty,values Enthusiasm and balance fairness.
		concepts of chemistry General introduction,	to: Understand the importance of chemistry in daily life	Lectures: Use visuals and real-life examples to explain	should be able to: Explain basic chemistry	worksheets, tests mcqs, ncert	analytical thinking, collaboration,sc ientific temper

		nature of matter, daltons atomic theory, concept of elements,mole concept, concentration terms, empirical and molecular formula, stochiometry	Define and explain basic terms: matter, mass, atom, molecule, element, compound, etc. Differentiate between physical and chemical changes. Learn about the laws of chemical combination. Understand the concept of mole, molar mass, and stoichiometry.	concepts. Experiments/De monstrations: Simple lab activities showing physical/chemic al changes. Group Activities: Mole concept calculations, role play of atoms forming molecules. Quizzes/Games: Chemistry bingo or flashcards for terminology.	terms and apply them in real-world contexts. Use mole concept in chemical calculations. Solve problems related to percentage composition and empirical formulas. Relate chemical laws to everyday phenomena (e.g., conservation of mass in cooking).		
BIOLOGY	CH-1	The Living World What is Living, Biodiversity, Three domains of life, Binomial Nomenclature	To make students understand and differentiate between Living and Non living organisms. To classify different Living organism on the basis of hierarchy To familiarize with different Taxonomical Aids like Herbarium, botanical garden, Zoological museum and facilitate, identify and classify different.	Group discussion on how these aids are helpful for biology students Classifying organisms on the basis of hierarchy .	Students will analyze the importance of Zoological parks and museum in creating interest about wild life, providing education , furnishing recreation and conservation of endangered species. They will be able to evaluate the importance of	Group discussion, Classification	They will be able to evaluate the importance of botanical garden in educating public about country's plant wealth and stimulate people to grow more trees.

					botanical gardens in educating the public about the country's plant wealth and stimulate people to grow more trees.		
MATHS	Chapter -1	Sets theory Sets and their representati ons, Empty set, Finite and Infinite sets, Equal sets, Subsets, Subsets of a set of real numbers especially intervals (with notations). Power set. Universal set. Venn diagrams. Union and Intersection of sets. Difference	Students will be able to learn / understand about 1. Sets & its types(finite and infinite sets, equal sets, subsets) 2. Types of intervals 3. The power set using the concepts of sub sets. 4. Venn diagrams. 5. Universal set, union and intersection of sets, difference of sets, complement of a set.	Class.Activity related to venn diagram on gender equality. PA1- To find the number of subsets of a given set and verify that if a set has n number of elements, then the total number of subsets is 2n. PA2- To represent set theoretic operations using Venn diagrams	Students learned about 1. Sets & its types(finite and infinite sets, equal sets, Subsets) 2. Types of intervals 3. The power set using the concepts of sub sets. 4. Venn diagrams. 5. Types and operation on sets,	1. Multiple Choice Questions. 2.Give the Case study question related to topic. 3.Exercise which are given in textbook. 4.Question from Exemplar NCERT	Identifies relations between different sets

		of sets					
		Complemen					
		t of a cot					
		t of a set.					
		Properties					
		of					
		Complemen					
		t.					
AI	Dort A unit 1		Developing active	Classroom	1+	Draw a neat	
	Part A- unit T	PART A :	listening improving	discussion	encompasses	Diagram of	
	Part B ₋ Unit 1	Employability	verbal and nonverbal		developing	Elements of	
		Skills	communication	Powerpoint	fluency and	Communicatio	
				presentations	various	n.	
		• UNIT-1:	Understanding AI's		communication		
		Communication	impact, critically	visual alds.	contexts.		
		Skills	evaluating its use, and		A.U		
		PART B :Subject	developing skills for		Allowing learners to		
		Skills	application		critically		
					evaluate their		
		UNIT – 1: -			understanding		
					areas for		
					improvement.		
		INTELLIGENCE					

	FOR EVERYONE					
PHYSICAL EDUCATION	On ground classes Played Badminton Cricket Football	Explanation of rules and regulations of the game. Learning rules by playing and applying skills and techniques taught.	Play Friendly games Explanation Practicing again and again	Students will be able to play the game by rules and regulations. Have knowledge of skills and techniques.	Played friendly matches	Students will be able to play games with full flash rules and regulations with proper technique.

MONTH: MAY

Month & No. of working days	<u>Subject</u>	<u>Lesson</u> <u>No.</u>	<u>Lesson Name&</u> <u>topic</u>	Learning objective	Pedagogy (Activities and resources)	<u>Learning</u> <u>Outcome</u>	<u>Assessment</u>	<u>Life Skills</u>
	ENGLISH	Literature Writing	Hornbill: The Portrait of a Lady A Photograp h (Poem) We're Not Afraid To Dieif We Can All Be Together Snapshots- : The Summer of the Beautiful White Horse Writing: Article Writing, Notice.	Students will be able to identify , analyze , interpret and describe the critical ideas , values and themes that appear in the literary prose and poems. The student is able to: (i) master the Mechanics of writing; the use of correct punctuation marks and capital letters; (ii) spell words	PPT Screen Sharing Explanation Experiential Learning Critical Communication and Collaboration	Students will be able to follow instructions and directions. Make inferences and judgment. Present various interpretation s of the poem and prose creatively and critically.	All the competencie s will be assessed through subject enrichment activities like creativity and innovation, critical thinking, communicati on, collaboration Assignments, Worksheets, Tests	Students will be able to Critically analyze the prose and poetry. Appreciate the beauty , rhyme, style, genre of the poem and prose. Students will be able to apply the grammar rules as per need in framing sentences and ideas while writing using the apt formats.

Grammar	Grammar:	correctly; (iii)		
	Editing	write neatly and		
	Boarrangin	legibly with		
	Realiangin	reasonable		
	g jumbled	speed: (iv) use		
	words	appropriate		
		grammatical		
		items; (VI) write		
		conerently in		
		more than one		
		paragraph; (vii)		
		complete		
		accurately and		
		fluently semi		
		controlled		
		compositions		
		like stories,		
		events,		
		processes etc;		
		(viii) write		
		description of		
		people, places		
		and things and		
		respond		
		imaginatively to		
		textual		
		questions; (ix)		
		write pragraphs.		
		letters.		
		(personal and		
		official) simple		
		narrative		
		pieces, reports		
		notices.		
		messages		
		diary entries		
		etc: (x) make		
		notes and		
		summarise: (vi)		
		odit written		
		matorial (vii)		
		material (XII)		

			expand notes.				
CHEMISTRY	ch-2	structure of atom discoveries of subatomic particle, isotope,isoba r,atomic models, dual nature of light, quantum numbers,sha pes of orbitals, electronic configuration , stability of orbitals	Students will be able to: Understand the historical development of atomic models (Dalton, Thomson, Rutherford, Bohr). Describe the structure of an atom: electrons, protons, and neutrons. Understand concepts like atomic number, mass number, isotopes, and isobars. Explain the arrangement of electrons in shells (Bohr's model) and electronic configuration.	Storytelling Approach: Explain evolution of atomic models like a story to build interest. 3D Models/Charts: Use atomic models to show structure visually. Simulations & Animations: Demonstrate atomic structure and electronic configuration dynamically. Hands-on Activities: Create atom models using beads, balls, or charts.	By the end of the lesson, students should be able to: Explain atomic models and how they evolved over time. Identify subatomic particles and their properties. Calculate atomic number and mass number. Write electronic configuration of elements (up to atomic number 20). Understand the significance of valency in bonding.	Assignments, Worksheets, Tests	Problem-Solving : Applying atomic concepts to solve chemistry problems. Curiosity and Inquiry: Asking questions about the nature of matter. Visual-Spatial Skills: Understanding structure through models and diagrams. Communication: Explaining atomic concepts using scientific vocabulary.

				Apply the concept of valency and predict chemical behavior of elements.				
BIO	OLOGY	CH- 2	Biological Classification Two Kingdom, Five Kingdom classification, details of Kingdom Monera, Protista and Fungi.	identification, classification Nomenclature, Taxonomy Explain and comprehend the characteristic features of different kingdom (monera, protista, fungi) with examples, their physiology and their connectivity to different kingdom.	PPT Screen Sharing Explanation Discussion Videos	Students will be able to develop team work, cooperation, concern, empathy by studying diversity in living organisms. Inculcate the value of usefulness by studying the economic importance of microbes and different organisms.	1.To study different parts of microscope and its working. 2.To observe different slides of the kingdom monera and protista and comment on it. 3.To observe different specimens and slides of kingdom Fungi and comment on it.	Develop curosity and eagerness to find the missing links between organisms of same kingdom and connecting links between organisms of different kingdom.
ma	aths	Chapter -2	Relations and functions Ordered Pair, Cartesian Products of Sets, Number	Students will be able to learn / understand about 1. Cartesian products of sets 2. ordered pair 3. Image Relations	Decision making Appreciate different approaches (representation) Observation Discussion Class.Activity related to venn diagram on gender equality. PA1- To find the number of subsets of a given set and verify that if a set	Students learned about Cartesian products of sets(ordered pair) ,Relations 8. Functions & its types ,. Domain ,range and image of Relations as well as	1.MultipleChoiceQuestions.2.GivetheCasestudyquestionrelatedtotopic.3.Exercisewhicharegivenintextbook.	Logical thinking ,critical thinking will be developed

		of elementsi n the Cartesian Products of Finite Sets, Cartesian Products of the Sets with itself, Definition of Relation, Pictorial diagrams, domain, codomain s and range of a relation, Function, Pictorial diagrams, domain, codomain s and range of a relation, Function, Pictorial diagrams, domain, codomain s and range of a relation, Function, Pictorial diagrams, domain, codomain s and	A. Domain & range of Relations 5. Functions &its types 6. Domain& range of functions	elements, then the total number of subsets is 2n. PA2- To represent set theoretic operations using Venn diagrams Q4To distinguish between a Relation and a Function	Analytical thinking (though the activity1) ,Visualization(th ough the activity 2) systematic approach (activity)	from Exemplar NCERT	
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	AI	Unit 3	Real Valued functions with their graphs, sum, difference, product and quotient of functions. PART A : Employability Skills · UNIT- 3: Information and Communicati on Technology Skills	ICT skills focus on developing practical abilities for using technology effectively, including understanding hardware and software, using digital resources, and applying digital skills to solve problems and communicate.	Classroom discussion Powerpoint presentations Visual aids.	Enable learners to access, create, and communicate information effectively, fostering critical thinking, collaboration, and digital literacy.	Make an attractive Chart on various Peripheral Devices. Create an email Account in Gmail and perform the various operations; compose, send, sending attachments etc.	enhanced communication, problem-solving, critical thinking, and digital literacy
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PHYSICAL EDUCATION On ground classes Played Badminton Cricket Football # PHYSICS chapter - 03	Explanation of rules and regulations of the game.Play Friendly games Explanation Practicing again and againLearning rules by playing and applying skills and techniques taught.Hay Friendly games Explanation Practicing again and again	Students will be able to play the game by rules and regulations. Have knowledge of skills and techniques.Played friendly matches	Students will be able to play games with full flash rules and regulations with proper technique.
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MONTH: JUNE

<u>Month &</u> <u>No. of</u> <u>working</u> <u>days</u>	<u>Subject</u>	Lesson No.	<u>Lesson</u> <u>Name&</u> <u>topic</u>	<u>Learning</u> <u>objective</u>	Pedagogy (Activities and resources)	<u>Learning</u> <u>Outcome</u>	<u>Assessment</u>	<u>Life Skills</u>		
	ENGLISH	Liter ature	Hornb ill: The Portra it of a Lady A Photo graph (Poem) We're Not Afraid To Diei	Students will be able to identify , analyze , interpret and describe the critical ideas , values and themes that appear in the literary prose and poems. The student	PPT Screen Sharing Explanation Experiential Learning Critical Communication and Collaboration	Students will be able to follow instructio ns and directions Make inference s and judgment.	All the compete ncies will be assessed through subject enrichme nt activities like creativity and innovatio n, critical thinking ,	All the competen cies will be assessed through subject enrichmen t activities like creativity and innovation, critical thinking, communic	Students will be analyze the prose Appreciate the bo style, genre of th prose. Students will be grammar rules as framing sentence	able to Critically e and poetry. eauty , rhyme, e poem and able to apply the s per need in es and ideas

		t We	is able to: (I)	Dresert	communi	ation ,	while writing using the apt
		Can	master the	Present	cation,	collaborati	formats.
		All Be	Mechanics	various	collaborat	on	
		Toget	of writing;	interpretat	ion		
		loget	the use of	ions of		Assignme	
		ner	correct	the poem	Assignm	nts,	
		Snaps	punctuation	and prose	ents,	Worksheet	
		hots-:	marks and	creatively	Workshe	s, Tests	
	Writi	The	capital	and	ets, Tests		
	ng	Summ	letters; (ii)	critically.			
		or of	spell words				
			correctly; (iii)				
		the	write neatly				
		Beauti	and legibly				
		ful	with				
		White	reasonable				
		Horse	speed; (iv)				
		The	use				
	Cram	Addro	appropriate				
	Graffi	Addre	vocabularv:				
	mar	SS	(v) use				
		Writin	correct				
		g:	grammatical				
		Article	items: (vi)				
		Writin	write				
			coherently in				
		g,	more than				
		Speec	one				
		h	paragraph.				
		Writin	(vii)				
		g,	complete				
		Notice	accurately				
		litere	and fluently				
			semi				
		Gram	controlled				
		mar:	compositions				
		Editin	like stories				
		g.	overte				
		Rearra	eveniis,				
		nging	processes				
		nging	etC, (VIII)				
		jumbl	white				
		ed	description				
			ot people,				

		words	places and things and respond imaginatively to textual questions; (ix) write pragraphs, letters. (personal and official) simple, narrative pieces, reports, notices, messages, diary entries etc; (x) make notes and summarise; (xi) edit written material (xii) expand notes.			

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CHEMISTRY	ch-3	classific	Understand	Interactive	By the end of	assignme		4. Life Skills
		ation of	the	Discussion:	this chapter,	nt,		Developed:
		element	historical	Explore the	students will	worksheet		Analytical
		s and	developme	evolution of the	be able to:	s, class		Thinking:
		periodici	nt of the	periodic table		test,		Interpreting
		periodici	Periodic	with historical	Explain how	reasoning		data from the
		ty in	Table	context.	elements are	questions		Periodic
		properti	(Dobereiner		classified			Table and
		es	, Newlands,	Visual Aids: Use	and the basis			drawing
			Mendeleev,	charts/models of	of periodicity.			conclusions.
			Moseley).	the modern				
			• •	periodic table to	Interpret			Problem-Solvi
			Explain the	explain trends.	trends in			ng: Applying
			Modern		physical and			concepts to
			Periodic	Activity-Based	chemical			predict
			Law and	Learning: Group	properties			element
			the Modern	students to	across the			properties.
			Periodic	observe trends in	Periodic			
			Table.	a set of elements	Table.			Scientific
				and present				Temper:
			Identify	findings.	Predict the			Understandin
			groups,	•	nature of			g the
			periods,		elements			evolution of
			and blocks		(metallic or			scientific
			in the		non-metallic)			theories
			Periodic		based on			through
			Table.		position.			evidence.
			Analyze		Use periodic			Observation
			periodic		trends to			& Reasoning:
			trends in		compare and			Recognizing
			properties		predict			patterns and
			such as:		properties of			trends in the
					unknown			natural world.
			Atomic and		elements.			
			ionic radii					Collaboration:
					Appreciate			Engaging in
			Ionization		the logic			group
			enthalpy		behind			activities and
					element			discussions.
			Electron		arrangement			

-	-	-				-	-	
			gain enthalpy Electroneg ativity Valency Relate the periodicity in properties to electronic configuratio ns of elements.		and its practical utility in understandin g chemical behavior.			
BIOLOGY								
MATHS								
AI				Classroom discussion Powerpoint presentations Visual aids.				

PHYSICAL EDUCATION					

MONTH: JULY

Month & <u>No. of</u> working days	<u>Subject</u>	<u>Lesso</u> <u>n No.</u>	Lesson Name& topic	Learning objective	Pedagogy (<u>Activities and</u> resources)	<u>Learning</u> <u>Outcome</u>	Assessment	Life Skills		
	ENGLISH	Lit era tur e Wr	Hornbill: The Portrait of a Lady A Photograph (Poem) We're Not Afraid To Dieif We Can All Be Together Snapshots-: The Summer of the Beautiful White Horse The Address Writing: Article Writing, Speech Writing, Speech Writing, Notice. Grammar: Editing, Rearranging jumbled	Students will be able to identify , analyze , interpret and describe the critical ideas , values and themes that appear in the literary prose and poems. The student is able to: (i) master the Mechanics of writing; the use of correct punctuatio n marks	PPT Screen Sharing Explanation Experiential Learning Critical Communica tion and Collaboratio n	Students will be able to follow instructio ns and directions Make inference s and judgment Present various interpreta tions of the poem and prose creatively and critically.	All the competencie s will be assessed through subject enrichment activities like creativity and innovation, critical thinking, communicati on, collaboration Assignments , Worksheets, Tests	All the compe tencie s will be asses sed throug h subjec t enrich ment activiti es like creativ ity and innova tion, critical thinkin g, comm unicati on, collab oration	Students will be a analyze the prose Appreciate the bea style, genre of the Students will be a grammar rules as framing sentences writing using the a	ble to Critically and poetry. auty , rhyme, poem and prose. ble to apply the per need in and ideas while apt formats.

	g	words	and capital			
			letters; (ii)		Assign	
			spell words		ments,	
			correctly:		Works	
			(iii) write		heets,	
			neatly and		Tests	
			logibly with			
			regiony with			
			speed; (IV)			
	Gr		use			
	am		appropriate			
	ma		vocabulary;			
			(v) use			
	ſ		correct			
			grammatic			
			al items;			
			(vi) write			
			coherently			
			in more			
			than one			
			paragraph:			
			(vii)			
			complete			
			accurately			
			and fluently			
			semi			
			controlled			
			compositio			
			ne liko			
			ovente			
			evenis,			
			etc, (VIII)			
			write			
			description			
			or people,			
			places and			
			things and			
			respond			
			imaginative			
			ly to textual			
			questions;			
			(ix) write			

	prag	graphs,			
	letter	ers.			
	(ners	sonal			
	and	official)			
	anu				
	simp	pie,			
	narra	ative			
	piece	es,			
	repo	orts,			
	notic	ces,			
	mes	sages,			
	diary	у			
	entri	ies etc;			
	(x) m	nake			
	note	es and			
	sumi	marise			
	; (xi)) edit			
	writte	ten			
	mate	erial			
	(xii)				
	expa	and			
	note	es.			

	PHYSICS	Unit I: Physical World and Measureme nt Chapter–1: Chapter–2:	Physical World Units and Measurements	The students/lea rner – explains that the disciplinary approach of Physics is a transition from general sciences explains the fundamental forces in nature	Experiments 1. To measure diameter of a small spherical/cylind rical body and to measure internal diameter and depth of a given beaker/calorime ter using Vernier Callipers and hence find its volume. 2. To measure diameter of a given wire and thickness of a given wire and thickness of a given sheet using screw gauge. 3. To determine volume of an irregular lamina using screw gauge. Activities 1. To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm. 2. To determine mass of a given body using a metre scale by principle of moments.	students will be able to explain the nature of fundamental laws such as conservation laws, etc. -explains the need of accuracy, precision, errors and uncertainties in measurement; and classify errors	11-Physics-Nc ertSolutions- chapter-2-ex ercises-addit ional-TA.pdf			
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CHEMISTRY	ch-4	chemical	Valence	Understand	enquiry-Bas	students will	collabo	
		bonding and	electrons,	the concept	ed Learning:	be able to	rative	
		molecular	ionic	of a chemical	Pose	learn about	thinkin	
		structure	bond,	bond and	questions	the different	g,	
			covalent	why atoms	like "Why do	types of	critical	
			bond,	bond.	atoms	bonding and	thinkin	
			bond		bond?" to	interactions	g,	
			parameter	Differentiate	stimulate	that exist in	analyti	
			s, Lewis	between	curiosity.	compounds.	cal	
			structure,	types of			thinkin	
			polar	chemical	Visualization		g,	
			character	bonds: ionic,	Tools: Use		experie	
			of	covalent,	models or		ntial	
			covalent	and metallic.	animations		learnin	
			bond,		to show		g	
			covalent	Describe the	bond		U	
			character	Lewis dot	formation			
			of ionic	structure and	and			
			bond,	VSEPR	molecular			
			valence	theory for	shapes.			
			bond	predicting	·			
			theory,	molecular	Collaborative			
			resonanc	shapes.	Learning:			
			e,	•	Group			
			geometry	Explain	activities to			
			of	properties of	draw Lewis			
			covalent	compounds	structures or			
			molecules	based on	simulate			
			, VSEPR	bonding and	bonding.			
			theory,	structure.	U			
			concept		Experiential			
			of .	Relate	Learning:			
			hybridizati	bonding type	Lab			
			on,	to physical	experiments			
			involving	properties	(e.g., testing			
			s, p and d	like melting	conductivity			
			orbitals	point,	of salt vs			
			and	solubility.	sugar			
			shapes of	and	solutions).			
			some	conductivity.	,			
			simple	,	Discussion &			

			molecules , molecular orbital theory of homonucl ear diatomic molecules (qualitativ e idea only), Hydrogen bond.		Reflection: Encourage students to relate bonding to real-world			
BIOLOGY	CH- 3	Plant Kingdom Algae and its types, Bryophytes and its types, Gymnosperms & Angiosperms - life cycles.	Classify and describe plant kingdom under different divisions- thalophyt a, brophyta, pteridoph yta, gymnosp erm and angiosper m.	To emphasize on development of observationa I, analytical skills and inculcating values like Responsibilit y, Coordination and Collaboration , Creativity, Awareness,C	The students will be able to comprehend and relate how cryptogams and phanerogam s plants differ in their life cycle.	To observe the different specimens of plant kingdom and comment on it.	. Develop sensitivity , concern and empathy towards nature by studying flora and fauna.	
	CH- 4		concept and classificatio n of	Real life examples PPT Screen Sharing	They will understand the concept and classify Animal kingdom under different phylum	To observe the different specimens of animal kingdom and comment on it. 2.Spotting-	They will explore their critical thinking by Connectin g the lower	

			Animal kingdom under different phylum porifera, cnidaria, ctenophore , platyhelmin thes,Asche lminthes, annelid, mollusca, arthropoda, echinoder mata, chordata.	Explanation Discussion Demonstrati on	porifera, cnidaria, ctenophore, platyhelmint hes, aschelminth es, annelid, mollusca, arthropoda, echinoderma ta, chordata. They will explore their critical thinking by Connecting the lower forms of organisms to the higher forms which led to evolution.	To identify the given organism, classify, draw and write its significant characteristic s .	forms of organism s to the higher forms which led to evolution.		
MATHS	Chapter -3	Trigonometr ic Functions: Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to	Students will be able to learn / understan d about 1. Measure of Angles (Degree measure &Radian measure) 2. Relation between degree and radian	Relates earlier learnt concept of trigonometric ratios to functions and evolves the idea of trigonometric functions HOTS,COM ETENCY BASED LEARNING INDUCTIVE LEARNING, Deductive learning	Students learned about 1. Measure of Angles (Degree measure &Radian measure) and its relation 2. Trigonom etric Functions & its Sign 3. Domain	* Unit circle will be drawn then students will be asked to calculate all T-ratio for different angles i.e ,90 ,180,270 -etc. PA3- To plot the graphs of sin x, sin 2x, 2sinx , using same coordinate axes.	Students will attain 1. Applicatio n of acquired knowledg e to find distance between any toobjects. 2. Problem solving & Critical thinking in sum	 Multiple Choice Questions. Give the Case study question related to topic. Exercise which are given in textbook. Question from Exemplar NCERT 	logical thinking ,critical thinking,will be developed

Def trig c fu with of u Trut ider sin2 = 1, Sigr trig c fu Dor rang trig c fu and gray Exp sin cos terr	finition of gonometri unctions th the help unit circle. th of the entity 2x + cos2x for all x. for	trigonome tricfunction ns 4 Trigonom etric Functions of Sun and Difference of Two Angles 5 Solution Trigonom etric Equations and triangle 6 Application n o trigonome tric function will Develop Critical	f	3. Analyzing a musical tone		
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	idantiticalika				
	the				
	following:				
	tan(x±y)=tan				
	x±tany/1∓ta				
	nxtany,				
	cot(x±y)=cot				
	xcoty∓1/coty				
	±cotx,				
	sinα±sinβ=2s				
	in1/2(α±β)co				
	s1/2(α∓β)				
	cosα+cosβ=2				
	cos1/2(α+β)c				
	os1/2(α-β)				
	$cos\alpha - cos\beta = -$				
	$2sin1/2(\alpha+\beta)$				
	$sin1/2(\alpha-\beta)$				
	Identities				
	related to				
	sin2x, cos2x,				
	tan2 x, sin3x,				
	cos3x and				
	tan3x.				
	General				
	solution of				
	trigonometri				
	c equations				
	of the type				

	siny = sina, cosy = cosa and tany = tana Complex Numbers and Quadratic Equations: Need for complex numbers, especially $i =$ $\sqrt{-1}$, to be motivated by inability to solve some of the quadratic equations. Algebraic properties of	Students will be able to learn / understand about 1. meaning and importance of Complex Number 2. Algebra of Complex Numbers, Modulus , Conjugate and multiplicati ve inverse	Demonstrates deductive thinking by using technique of mathematical induction for establishing generalized mathematical statements. Extends the idea of real numbers to a larger system of complex numbers.	Students learned about 1. Algebra ofComple xNumbers including multiplicat ive inverse of the non-zero complex number and Represent ation of complex	1. Multiple Choice Questions. 2.Give the Case study question related to topic. 3.Exercise which are given in textbook. 4.Question from Exemplar NCERT PT 1 EXAM	Students will attain following behaviour al objectives 1. Decision making 2. Reasonin g 3 . Appreciat e different approach es of represent ation	
	equations. Algebraic properties of complex numbers. Argand plane and polar representati	Conjugate and multiplicati ve inverse of a Complex Number. 3. Represent ation of complex number on	of complex numbers.	and Represent ation of complex number on argand plane. 2. argument (or amplitude	NCERT PT 1 EXAM	es of represent ation	

		on of complex numbers. Statement of Fundamental Theorem of Algebra, solution of quadratic equations (with real coefficients) in the complex number system. Square root of a complex number	Argand Plane and argument (or amplitude) of a Complex Number. 4. Square root of a Complex Number) of a complex Number 3. Polar Represent ation of a Complex Number 4. Square root of a Complex Number 5 Reasonin g 6. Imaginatio n		
AI	Unit 2	PART B : Subject Skills UNIT – 2: UNLOCKING YOUR FUTURE IN AI	Identify the common jobs in the field of AI and respective responsibi lities	Lecture method Powerpoint slides Visual aids	Explore resources for further learning and skill development in the field of AI	Developin g these skills will empower them to drive innovatio n and adapt to technolog	

							ical advance ments	
YSICAL	Unit 1	Changing Trends and Careers in Physical Education	Students will be able to understan d the changing trends of physical education. Also have knowledge about the career option in physical education with scope	Explanation with examples Description Cross questioning Learning Communicat ion.	Students will be able to define physical education and will be able to differentiate between the career options in physical education and the success of it.	Cross questioning Asking for explaining things with examples.	Will be able to understand the career options in physical education.	
	Unit 2	Olympic Values Education	and success in it. Students will be able to understand and know more about Olympic Motto, Oath, Flag	Explanation with examples Description Cross questioning Learning Communicat ion.	Students have understood the importance of the Olympic games and the format of playing games in it. They have	Cross questioning and asking form students about the explanation of chapters.	Will be able to understand the Format of the Olympic games. (Its symbol, Oath, Motto , Flag and Anthem)	

			and Symbols They wil get knowled of Olymp value educatio (Joy of effort, Fa play,Resp t for othe etc.	ge ic n. ir ec rs	understood the importance of taking oath, Flag hosting and Motto of playing it.				
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MONTH: AUGUST

<u>Month & No.</u>	<u>Subject</u>	Lesson	<u>Lesson Name&</u>	Learning objective	<u>Pedagogy (</u>	Learning Outcome	<u>Assessment</u>	Life Skills
<u>of working</u>		<u>No.</u>	<u>topic</u>		Activities and			
<u>days</u>					<u>resources)</u>			
	ENGLISH	Literat ure Writin g Gram	Hornbill: Discovering Tut: the Saga Continues The Laburnum Top (Poem) Landscape of the Soul Snapshots: Albert Einstein at School Writing: Formal Letter, Report, Grammar: Omission, Transformation of sentences	Students will be able to identify , analyze , interpret and describe the critical ideas , values and themes that appear in the literary prose and poems. The student is able to: (i) master the Mechanics of writing; the use of correct	PPT Screen Sharing Explanation Experiential Learning Critical Communicatio n and Collaboration	Students will be able to follow instructions and directions. Make inferences and judgment. Present various interpretations of the poem and prose creatively and critically.	All the competenc ies will be assessed through subject enrichment activities like creativity and innovation, critical thinking, communic ation, collaborati on Assignmen	Students will be able to Critically analyze the prose and poetry. Appreciate the beauty , rhyme, style, genre of the poem and prose. Students will be able to apply the grammar rules as per need in

	mor	pupetuation		to	froming contanges and
	IIIdi	punctuation		lo, Markabaat	
		marks and		vvorksneet	ideas while writing
		capital letters; (II)		s, lests	using the apt formats.
		spell words			
		correctly; (iii)			
		write neatly and			
		legibly with			
		reasonable			
		speed: (iv) use			
		appropriate			
		use conect			
		grammatical			
		items; (vi) write			
		coherently in			
		more than one			
		paragraph; (vii)			
		complete			
		accurately and			
		fluently semi			
		controlled			
		compositions like			
		compositions like			
		siones, evenis,			
		processes etc;			
		(VIII) write			
		description of			
		people, places			
		and things and			
		respond			
		imaginatively to			
		textual			
		auestions: (ix)			
		write pragraphs			
		letters (nersonal			
		and official)			
		simple, nanative			
		pieces, reports,			
		notices,			
		messages, diary			
		entries etc; (x)			
		make notes and			
		summarise; (xi)			
		edit written			

			material (xii) expand notes.				
PHYSICS	Chapter-2:	Units and Measurements Continue	Students will differentiates between distance and displacement; speed and velocity; rectilinear and curvilinear motions; kinematics and dynamics; inertial	Experiments 1. To measure diameter of a small spherical/cylindric al body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume.	Students will be able to communicate the findings and conclusions effectively. Applies concepts of physics in daily life while making decisions and solving problems.	https://drive. google.com/f ile/d/0B8hXb vn1ab-BUzJ DcFpnRWF MUnM/view ?resourceke y=0-NHISRS ECCQBvQI WqAncS5w	
	Unit II: Kinematics Chapter–3:	Motion in a Straight Line	The learner can understand -inertial frames of references; average, relative, and instantaneous velocity and speed etc. – derives (graphically) kinematic equations foruniformly accelerated motion –	 To measure diameter of a given wire and thickness of a given sheet using screw gauge. To determine volume of an irregular lamina using screw gauge. To determine radius of curvature of a given spherical surface by a spherometer 	students will be able to find range max. height and time of flight of projectile. -Dissection and application of circular motions. Students will able to apply concepts of physics in daily life while making decisions and solving problems	https://drive. google.com/f ile/d/0B8hXb vn1ab-BaUN RY0haX29x V00/view?re sourcekey=0 -ToUGuYPR FWjbdz_vF6	
	Chapter-4:	Motion in a Plane	Students will communicate the findings and conclusions effectively. – applies concepts of physics in daily life while making decisions and			<u>yUaQ</u> https://drive. google.com/f ile/d/0B8hXb	

			solving problems. -Can understand operations (addition subtraction and multiplication of vectors.			vn1ab-Bakd nb1FGMEJq NDA/view?r esourcekey= 0-MxIP9eOL geaOTMOX WmBVgQ	
EMISTRY	ch-5	Concepts of System and types of systems, surroundin gs, work, heat, energy, extensive and intensive properties, state functions. First law of thermodyn amics	Understand and explain the basic laws of thermodynamic s. Define and describe key terms: system, surroundings, entropy, enthalpy, internal energy, etc. Apply thermodynamic principles to solve real-life problems and engineering scenarios.	Inquiry-Based Learning: Encourage questioning, prediction, and investigation (e.g., What happens when?) Project-Based Learning: Build or analyze systems like solar ovens, refrigerators, or engines. Interdisciplinary Approach: Link with chemistry, engineering, and environmental science.	Understand and apply the laws of thermodynamics. Analyze and solve heat engine and entropy problems. Evaluate efficiency and sustainability of thermal systems. Affective: Develop appreciation for energy conservation. Foster curiosity about natural and engineered thermal systems. Psychomotor:	assignment s worksheet Ncert questions reasoning questions numericals	Understand and apply the laws of thermodynamics. Analyze and solve heat engine and entropy problems. Evaluate efficiency and sustainability of thermal systems. Affective: Develop appreciation for energy conservation. Foster curiosity about natural and engineered thermal systems.

-internal energy at enthalpy, heatcapacity and specific heat, measure ent of ΔU and ΔH , Hess's law of constat heat summati , enthalp of bond dissociat n, combust n, formatio atomizat n, sublimat n, phase transition	hd processes such as heat engines, refrigerators, and energy conversions Conceptual Understanding: Use real-life analogies (e.g., heat transfer = cooking, engine cycles = car engines) W nt on M o o h, o	Collaborative Learning: Group discussions, problem-solving sessions, and peer teaching.	Conduct lab experiments (e.g., calorimetry, heat transfer). Use thermodynamic instruments (e.g., thermometer, pressure gauge).	Psychomotor: Conduct lab experiments (e.g., calorimetry, heat transfer). Use thermodynamic instruments (e.g., thermometer, pressure gauge).
n, phase transition ionizatio	n, n,			

	solution			
	and			
	dilution.			
	Second law			
	of			
	Thermody			
	namics			
	(brief			
	introductio			
	n)			
	Introducti			
	on of			
	entrony as			
	a state			
	function			
	Gibb's			
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	processes,			
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	amics			
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	(brief			
	introductio			
	n)			

BIOLOGY	CH - 5	Morphology of Flowering Plants General characters of root stem leaves and flowers Modification of root, stem, leaves, inflorescence Flower its parts Taxonomical description of Flower Fruit and its Classification Seeds and its types Taxonomical description of some Important Families like Solanaceae, Fabaceae, Liliaceae.	To make the students understand about various morphological features of plants and their modified parts like Root, Stem, Leaf, Inflorescence, Flower To identify different types of inflorescence, flower, leaves according to the acquired knowledge.	PPT Screen Sharing Explanation Demonstration Discussion	The students will understand the different types of modification in root, stem and leaves. They would be able to apply the knowledge of different technical aspects of flower in identifying the different families by drawing the floral parts and floral formula.	To study and display different types of flower and make its floral diagram and formula . Calculate the age of the trees Design Experimental setups and undergo hypothesis testing; Apply the different Microscopic techniques in observing the anatomy of leaf, stem, root.	
	CH - 6	Anatomy of Flowering Plants Meristematic tissue Permanent Tissue Tissue System Primary Structure of Root Internal structure of monocot and dicot root, leaf and stem Secondary growth in Stem	Anatomy of Dicotyledons and Monocotyledons roots, stem and leaves concept of Secondary Growth and its mechanism. different Plant Life Cycles and Alternation of Generations.	PPT Screen Sharing Explanation Demonstration Discussion	The students will understand the internal structure of root and stem of dicot and monocot plants. They will evaluate the role of vascular bundles in the secondary growth Learners will be able to calculate the age of trees by counting the annual rings .	Development of skills like observational, diagrammatical and experimental and inculcating values like Creativity (while drawing the diagram), Awareness by identifying the location of different tissues of plant.	

MATHS	Chapter -4	PrincipleofMathematicalInduction:Process ofthe proofbyinduction,motivatingtheapplicationof themethod bylooking atnaturalnumbersas the leastinductivesubset ofrealnumbers.Theprinciple ofmathematicalinduction	Students will be able to learn / understand about 1. Inductive and deductive method of proof 2. Method of proof by mathematical induction 3. Generalization of proof from 1 to n +1	Demonstrates deductive thinking by using technique of mathematical induction for establishing generalized mathematical statements. Extends the idea of real numbers to a larger system of complex numbers.	Students learned about 1. Mathematical induction to prove a result 2. Reasoning & Analysing by the activity of falling pile	1. Multiple Choice Questions. 2.Give the Case study question related to topic. 3.Exercise which are given in textbook	Students will attain following behavioural objectives 1. Reasoning 2.Analysing

and simple application s. Complex Numbers students Identify the general to learn / understand about 1. Students will be able to learn / understand about 1. Students learned about 1. Sequences and Series, Identify the general term and Series, 2. Arithmetic Progression 2. Students and Series, 2. (A.P.) Arithmetic 3. nh term and terms of A.P. 1. 4. Secometric Progression (G.P.) 5. G.M. , G.M. G.M. and the relation between them	
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						predecesso rs.	
AI	Unit 2 Unit 4	PART A : Employability Skills • UNIT- 2 : Self-Managem ent Skills UNIT- 4 : Entrepreneur ial Skills	self-management focus on developing the ability to regulate emotions, behaviors, and actions to achieve personal and professional goals	Classroom discussion Powerpoint presentations Visual aids.	increased personal and professional effectiveness, enhanced well-being, and improved relationships	Diagram of Self-Manag ement Skills	enable individuals to effectively manage their thoughts, feelings, and actions
PHYSICAL EDUCATION	Unit 3	Yoga	Students will be able to understand the benefits and contraindication s of yoga asanas. Illustration of yoga asanas. (Sitting, standing , on stomach and on our back)	Explanation Illustration With Examples explanation Reading	Students will perform yoga asanas. Can prepare for a practical exam to get good marks.	The assessment will be done taking a practical exam. By performing yoga asanas.	Students will get good at yoga asanas and will be able to perform and tell the benefits of various yoga asanas.
	Unit 4	Physical Education and sports for CWSN	Students will be able to understand the importance of participation of children with special needs in	Explanation with examples Reading Cross questioning	Students will have knowledge of the tournaments and competitions related to children with special needs. Will be able to	The assessment	Students will get good at understanding the different kinds of tournaments of CWSN.

	different kinds of sports and how we can encourage physically challenged children to participate in sports.	motivate special children to participate in sports.	will be done by Cross Questionin g about the Chapter in detail.	
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MONTH: SEPTEMBER

Month & No. of working days	<u>Subject</u>	<u>Lesson</u> <u>No.</u>	Lesson Name& topic	Learning objective	Pedagogy (Activities and resources)	Learning Outcome	<u>Assessment</u>	<u>Life Skills</u>
	ENGLISH	Liter atur e Writ ing	Hornbill: The Voice of the Rain The Ailing Planet: the Green Movement's Role The Browning Version Snapshots: Mother's Day Writing:Formal letters	Students will be able to identify , analyze , interpret and describe the critical ideas , values and themes that appear in the literary prose and poems. The student is able to: (i) master the Mechanics of	PPT Screen Sharing Explanation Experiential Learning Critical Communication and Collaboration	Students will be able to follow instructions and directions. Make inferences and judgment. Present various interpretation	All the competenc ies will be assessed through subject enrichment activities like creativity and innovation, critical thinking, communic ation, collaborati on	Students will be able to Critically analyze the prose and poetry. Appreciate the beauty , rhyme, style, genre of the poem and prose.

			-			
		Editing, Omission	writing; the use	s of the	Assignmen	to apply the grammar
			of correct	poem and	Assignmen	rules as per need in
	Gra		punctuation	prose	lS, Markabaat	framing sentences and
	mm		marks and	creatively	vvorksneet	ideas while writing
			capital letters; (ii)	and critically.	s, lests	using the apt formats.
	ar		spell words			
			correctly; (iii)			
			write neatly and			
			legibly with			
			reasonable			
			speed; (iv) use			
			appropriate			
			vocabulary; (v)			
			use correct			
			grammatical			
			items; (vi) write			
			coherently in			
			more than one			
			paragraph; (vii)			
			complete			
			accurately and			
			fluently semi			
			controlled			
			compositions like			
			stories, events,			
			processes etc;			
			(viii) write			
			description of			
			people, places			
			and things and			
			respond			
			imaginatively to			
			textual			
			questions; (ix)			
			write pragraphs,			
			letters. (personal			
			and official)			
			simple, narrative			
			pieces, reports,			
			notices,			
			messages, diary			
			entries etc; (x)			
			make notes and			

				summarise; (xi) edit written material (xii) expand notes.				
PHYS	SICS Ui Ch	Jnit III: hapter—5:	Laws of Motion	The learner can explains applications of Newton's three laws of motion, -explains problems with circular motion -Roll of friction in motions	 Experiments: 5. To determine the mass of two different objects using a beam balance. 6. To find the weight of a given body using the parallelogram law of vectors. 7. Using a simple pendulum, plot its L-T 2 graph and use it to find the effective length of second's pendulum. 8. To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result. Activities 1. To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm. 2. To determine mass of a given body using a metre scale by principle of moments 		https://drive. google.com/f ile/d/0B8hXb vn1ab-BT3E wQkxaVnp2 WIU/view?re sourcekey=0 -Of50bqNxy 8GUxa0eKcj D9w	
CHEN	MISTRY ch-6	-6	Equilibriu m in physical and chemical processes,	students will be able to define equilibrium in physical and chemical system. students will be able to	lab experiments real world examples inquiry based learning discussion ppt	Understand the dynamic nature of chemical equilibrium in reversible reactions. Apply Le	assignment ,worksheet s, Ncert practice questions, MCQs	critical thinking, analytical thinking, observation and adaptibility

	dynamic	between static	Principle to	
	nature of	and dynamic	predict how	
	oquilibrium	equilibrium, le	changes in	
	equilibrium	principle	temperature or	
	, law of	principic	pressure affect	
	mass		the equilibrium	
	action,		position.	
	equilibrium		Use the	
	constant,		equilibrium	
	factors		constant (Kc or	
	affecting		Kp) to calculate and predict	
	equilibrium		reaction	
			behavior.	
	Chataliar's		Internet	
			graphical and	
	principie,		numerical data	
			related to	
	equilibrium		systems	
	- ionization		eyeteme.	
	of acids			
	and bases,			
	strong and			
	weak			
	electrolvtes			
	, degree of			
	ionization			
	ionization			
	of poly			
	basic acids,			
	acid			
	strength,			

		concept of pH, hydrolysis of salts (elementar y idea), buffer solution, Henderson Equation, solubility product, common ion effect (with illustrative examples).					
BIOLOGY	CH- 8	. Cell – The Unit of Life . Cell as basic structural and functional unit of life, difference between prokaryote/eukaryote, Cell membrane, and cell organelles like mitochondria, plastids, chloroplast and nucleus .	Cell theory and its different Discoveries and inventions of Cel	PPT Screen Sharing Explanation Experiential Learning Critical Communication and Collaboration	Learner learnt and understood about cell and structural organization of cell. Students will be able toUnderstand about the Primary	To observe the different stages of meiosis through permanent slides To prepare the onion root tip slide and to observe different stages of mitosis.	

	CH -9.	Biomolecules Structures of carbohydrates, proteins, fats, nucleic acids.	Secondary metabolites *structure and function of different Bio macromolecules and enzymes	Screen Sharing Explanation Experiential Learning Critical Communication and Collaboration	and Secondary metabolites Understand about the structure and function of different Bio macromolecules and enzyme.	food samples To prove heat destroys the activity of enzymes and not the catalyst. 2. to prove that change of pH inhibits the enzyme activity.	
ATHS P a C a	Permut ations & Combin ations	Fundamental Principle of Counting, Factorial n (n!), Permutations & Combinations , Derivation of Formulae and their connections, Simple Applications.	Students will be able to learn / understand about 1. Fundamental Principle of Counting 2. Meaning of Factorial 3. Concept and application of Permutations 4. Concept and application of Combinations	Worksheet to be given Lecture method Indo-deductive method experiential learning discussion Explanation demostration real life examples	Students learned about 1. Fundamental Principle of Counting 2. Meaning of Factorial 3. Concept and application of Permutations 4. Concept and application of Combinations 5. Order 6. Imagination	Activity-To find the number of ways in which three cards can be selected from given five cards assignment s,workshee ts	Students will attain following skills through solving variety of problems. 1. Order 2. Imagination 3. Management 4. Reasoning
C	Conic vections	Section of a Cone, Circles, Ellipse, Parabola, Hyperbola, a	Students will be able to learn / understand about 1. Sections of a	Worksheet to be given Lecture method Indo-deductive	Students learned about 1. Sections of a Cone 2. Definition, Focus, Latus	-To construct a Pascal's Triangle and to write	Students will attain following skills through solving variety of problems.

AI	Revision for half yearly exam	point , a straight line and a pair of intersecting lines as a degenerated cone of a conic section, standard equations and simple properties of Parabola, Ellipse and Hyperbola , Standard equation of a circle.	Cone 2. Definition, Focus, Latus rectum and directrixof parabola 3. Equation of Parabola 4. Definition, Major axis, minor axis, Focus, Latus rectum and directrixof Ellipse 5. Equation of Ellipse 6. Definition, Transverse axis, Conjugate axis, Focus, Latus rectum and directrixof Hyperbola 7. Equation of Hyperbola 7. Equation of Hyperbola	method experiential learning discussion Explanation demostration real life examples	rectum and directrixof parabola 3. Equation of Parabola 4. Definition, Major axis, minor axis, Focus, Latus rectum and directrixof Ellipse 5. Equation of Ellipse 6. Definition, Transverse axis, Conjugate axis, Focus, Latus rectum and directrixof Hyperbola 7. Equation of Hyperbola 8. Imagination skill 9. Creativity Revision for half yearly exam	binomial expansion for a given positive integral exponen	 Order Imagination Management Reasoning
	yearly exam				Joan Johann	exam	
PHYSICAL EDUCATION	Unit 5	Physical fitness Health and Wellness	Students will be able to understand the importance of wellness, health and Physical fitness.	Reading and detailed explanation with examples Cross questioning	Students will understand the importance of wellness, health and Physical fitness. Get aware of giving	Assessme nt will be done by engaging students to get involved in fitness	Will get aware of Importance of fitness and Wellness in Lifestyle. Improve Leadership qualities.

		Leadership qualities will be explained and introduction to First aid will be given to the students.		first aid. Will apply leadership qualities in daily life.	activities and take responsibil ity as a leader.	
Unit 6	Test Measureme nt and Evaluation	Students will be able to understand the Importance of Test, Measurement and Evaluation in sports performances. Will get clarity of BMI and will be able to calculate BMI, Waist Hip Ratio and Skin Fold Measurements.	Reading and detailed explanation with examples Cross questioning On Board Explanation	Students have understood the importance of Measuring Performance of a sports person. Analysing the Performance level and Evaluating the improvement process in the game.	Assessme nt will be done by engaging students to get involved in fitness activities and Evaluation their performan ces according to the game.	Students will be able to test, Measure and Evaluate their own performances.

MONTH: OCTOBER

Month & No.	<u>Subject</u>	Lesson	Lesson Name&	Learning objective	Pedagogy (Activities and	<u>Learning</u>	<u>Assessment</u>	<u>Life Skills</u>
of working		<u>No.</u>	<u>topic</u>		<u>resources)</u>	<u>Outcome</u>		
days								

ENGLISH	·			PPT			
	Liter atur e	Hornbill: The Voice of the Rain The Ailing Planet: the Green Movement's Role The Browning Version Snapshots: Mother's Day Writing: Letter Writing	Students will be able to identify , analyze , interpret and describe the critical ideas , values and themes that appear in the literary prose and poems.	Screen Sharing Explanation Experiential Learning Critical Communication and Collaboration	Students will be able to follow instructions and directions. Make inferences and judgment.	All the competenc ies will be assessed through subject enrichment activities like creativity and innovation, critical	Students will be able to Critically analyze the prose and poetry. Appreciate the beauty , rhyme, style, genre of the poem and prose.
	Writ ing Gra mm ar	Grammar: Editing, Omission	The student is able to: (i) master the Mechanics of writing; the use of correct punctuation marks and capital letters; (ii) spell words correctly; (iii) write neatly and legibly with reasonable speed; (iv) use appropriate vocabulary; (v) use correct grammatical items; (vi) write coherently in more than one paragraph; (vii) complete accurately and fluently semi controlled compositions like stories, events,		Present various interpretation s of the poem and prose creatively and critically.	thinking , communic ation , collaborati on Assignmen ts, Worksheet s, Tests	Students will be able to apply the grammar rules as per need in framing sentences and ideas while writing using the apt formats.

				processes etc; (viii) write description of people, places and things and respond imaginatively to textual questions; (ix) write pragraphs, letters. (personal and official) simple, narrative pieces, reports, notices, messages, diary entries etc; (x) make notes and summarise; (xi) edit written material (xii) expand notes.				
РНУ	YSICS	Chapter -6 Unit V: Chapter– 7:	Work, Energy and Power -Continue System of Particles and Rotational Motion	- understand the concept of elastic and inelastic collision. Understand the concept of center of mass, application center mass of any system in our daily life. Learner can explains -angular momentum, torque, moment of couple and moment of inertia	 Experiments: 9. To study the relationship between force of limiting friction and normal reaction and to find the co- efficient of friction between a block and a horizontal surface. 10. To find the downward force, along an inclined plane, acting on a roller due to the gravitational pull of the earth and study its relationship with the angle of inclination θ by plotting a graph between force and sinθ 	- can understand applications of law of conservation of angular momentum -Understand Moment of Inertia of regular bodies and their need our daily life	https://drive.g oogle.com/fil e/d/0B8hXbv n1ab-Ba3hHZ GlrQnJkRm8/ view?resource key=0-7WGx 6u4MmPpd5 Syo45e-tw https://drive.g oogle.com/fil e/d/0B8hXbv n1ab-BdUsy UDdQbFAzc3 c/view?resour cekey=0-UtC n_D4pvSvQt UfV6XjGcg	

CHEMISTRY	ch-7	Concept of oxidation oxidation and and reduction, redox reactions, oxidation number, balancing redox reactions, in terms of loss and gain of oxidation ox	students will learn the concept off oxidation, reduction, identify oxidising and reducing agent, balance redox reactions	concept explanation visual aids hands on experiment	to identify oxidation and reduction, understand the role of oxidation and reduction in real life	practice reactions of balancing assignment worksheet class test	critical thinking problem solving collaboration
BIOLOGY	СН- 10	gain of electrons and change in oxidation number, application s of redox reactions.	*Cell Cycle and Cell Division *Various stages of Mitosis and Meiosis	PPT Screen Sharing Explanation Experiential Learning	Students will be able to identify that cuts and wound heals due to the	List the four stages of interphase, and describe	
			* significance of Mitosis and Meiosis.	Critical Communication and Collaboration	process of cell division They will be sensitized and will be able to apply their knowledge that genetic disorder cannot be cured. They will be analyzing that	the major events that occur during each stage in preparation for cell division. Describe the difference	

	CH- 13	Photosynthesis in higher Plants Steps of photosynthesis, Light and dark reaction, Role of chlorophyll, Cyclic and noncyclic photophosphorylation, Calvin Cycle, Hatch and Slack Cycle, Photorespiration, Factors.	To make them understand update with the Early Experiments To explain and make them understand the structure of chloroplast where Light reaction takes place Understand the importance of photosynthesis in plant growth Explain the mechanism of Photosynthesis-ligh t and dark reaction	PPT Screen Sharing Explanation Experiential Learning Critical Communication and Collaboration	formation of one organelle facilitates the formation of other organelle which will inculcate the value of coordination. Students will be able to understand the structure of chloroplast where Light reaction takes place . They will be able to Understand the importance of photosynthesis in plant growth .	between mitosis and cytokinesis.	
MATHS	Chapter = -Straight lines	Brief recall of two dimensiona I geometry, Shifting of origin, Slope of a line and angle	Students will be able to learn / understand about 1. Slope of a Line 2. Conditions for parallelism and perpendicularity of lines in terms of their slopes 3.	Worksheet to be given Graphical method Lecture method Indo-deductive method PYQS HOTS CASE STUDY QUESTIONS	Students learned about 1. Slope of a Line 2. Conditions for parallelism and perpendicularity of lines in terms of their slopes 3. Forms of the equation of a line	 Multiple Choice Questions. Give the Case study question related to topic. Exercise which are given in textbook. Question 	After learning this chapter students will be able to develop 1. Presentation skill 2. Visualization 3. Give responses according to situation

	between two lines, Various forms of equations of a line, parallel to axis, point - slope form, Slope intercept form, Two point form, Intercept Form and Normal Form. General equation of a line. Equation of family of lines passing through the point of intersectio n of two lines,	Various forms of the equation of a line 4. Angle between two lines 5. General equation of a line 6. Distance of a point from a line 7. Distance between two parallel lines.		 4. Angle between two lines 5. General equation of a line 6. Distance of a point from a line 7. Distance between two parallel lines. 8. Presentation skill 9. Visualization 10. Give responses according to situation 	trom Exemplar NCERT	
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		Distance of a point from a line.					
AI	Unit 5 Unit 6	PART B : Subject Skills • UNIT – 5: - PYTHON PROGRAMM ING UNIT – 6: INTRODUCTIO N TO CAPSTONE PROJECT	Python programs is to gain proficiency in using Python to solve computational problems, develop applications, and understand fundamental programming concepts.	Classroom discussion Powerpoint presentations Visual aids.	Students gain the ability to write basic programs, understand fundamental concepts like variables and loops, and handle file operations	Programs related to Python.	

PH ED	IYSICAL	Unit 7	Fundamenta I of Anatomy Physiology in Sports	Students will be able to understand the Anatomy and Physiology of the human body. They will get detailed information about the Functions of Muscles, Circulatory System and Respiratory System.	Explanation with example Reading Topics Discussion	Students have understood the Functions of Respiratory system, Circulatory System and Muscles and the changes come in the body when our body is exposed to exercises.	All the students have a discussion about the chapter and tell Functions of systems in our body.	Students have the k knowledge of Functioning of the body when it is exposed to exercises.
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MONTH: NOVEMBER

<u>Month & No.</u> of working days	<u>Subject</u>	<u>Lesson</u> <u>No.</u>	<u>Lesson Name&</u> <u>topic</u>	Learning objective	<u>Pedagogy (Activities and resources)</u>	<u>Learning</u> <u>Outcome</u>	<u>Assessment</u>	<u>Life Skills</u>
	ENGLISH	Liter atur e Writ ing Gra mm ar	Hornbill: The Adventure Childhood (Poem) Writing: Poster Grammar: Gap filling, Jumbled sentences	Students will be able to identify , analyze , interpret and describe the critical ideas , values and themes that appear in the literary prose and poems. The student is able to: (i)	PPT Screen Sharing Explanation Experiential Learning Critical Communication and Collaboration	Students will be able to follow instructions and directions. Make inferences and judgment.	All the competenc ies will be assessed through subject enrichment activities like creativity and innovation, critical thinking, communic	Students will be able to Critically analyze the prose and poetry. Appreciate the beauty , rhyme, style, genre of the poem and prose.

		master the	various	ation,	
		Mechanics of	interpretation	collaborati	Students will be able
		writing; the use	s of the	on	to apply the grammar
		of correct	poem and	Assistances	rules as per need in
		punctuation	prose	Assignmen	framing sentences and
		marks and	creatively	tS,	ideas while writing
		capital letters; (ii)	and critically.	vvorksneet	using the apt formats.
		spell words		s, lests	
		correctly; (iii)			
		write neatly and			
		legibly with			
		reasonable			
		speed; (iv) use			
		appropriate			
		vocabulary; (v)			
		use correct			
		grammatical			
		items; (vi) write			
		coherently in			
		more than one			
		paragraph; (vii)			
		complete			
		accurately and			
		fluently semi			
		controlled			
		compositions like			
		stories, events,			
		processes etc;			
		(viii) write			
		description of			
		people, places			
		and things and			
		respond			
		imaginatively to			
		textual			
		questions; (ix)			
		write pragraphs,			
		letters. (personal			
		and official)			
		simple, narrative			
		pieces, reports,			
		notices,			
		messages, diary			

			entries etc; (x) make notes and summarise; (xi) edit written material (xii) expand notes.				
PHYSICS	Unit VI: Chapter–8 Unit VII: Properties of Bulk Matter Chapter–9:	Gravitation Mechanical Properties of Solids	Learners an - state Kepler's law -can derive the expression for variation in acceleration due to gravity due to height and depth. Learner can - Handles tools and laboratory apparatus like searl apparatus -Can Understand the concept of elasticity and apply in general life.	 Experiment: (Section B) 1. To determine Young's modulus of elasticity of the material of a given wire. 2. To find the force constant of a helical spring by plotting a graph between load and extension. Activity 3. To plot a graph for a given set of data, with proper choice of scales and error bars. 4. To measure the force of limiting friction for rolling of a roller on a horizontal plane. 5. To study the variation in range of a projectile with angle of projection. Experiment 3. To study the variation in volume with pressure for a sample of air at constant temperature by plotting graphs between P and 1/V. 4. To determine the murface temping. 	- can derive expression for gravitational potential energy, escape velocity and orbital velocity	https://drive.go ogle.com/file/d/ OB8hXbvn1ab- BdUsyUDdOb FAzc3c/view?r esourcekey=0- UtCn_D4pvSv QtUfV6XjGcg https://drive.go ogle.com/file/d/ OB8hXbvn1ab- Ba3hHZGlrQnI kRm8/view?res ourcekey=0-7 WGx6u4MmPp d5Syo45e-tw https://drive.go ogle.com/file/d/ OB8hXbvn1ab- BYmxQSWpW Z3ZwS1E/view Zresourcekey=0 -PtH9RLd-fxW rww4F6eNTY Q https://drive.go ogle.com/file/d/ OB8hXbvn1ab- BYmxQSWpW Z3ZwS1E/view Z3ZwS1E/view Z3ZwS1E/view PtH9RLd-fxW rww4F6eNTY Q	

C	HEMISTRY	ch-8	Some Basic Principles and Techniques General introductio	students will understand the structure of organic compounds, classification of compounds,me chanisms of	conceptual explanation, interactive lectures,demonstratio n,collaborative learninng	students will be able to identify and classify organic compounds, mechanisms of reactions, nomenclature	assignment s worksheets ncert	critical and analytical thinking collaborative thinking, problem solving, practical application and innovation
			introductio n, methods of purification , qualitative and quantitativ e analysis, classificati on and IUPAC nomenclat ure of organic compounds	chanisms of organic reactions,IUPA C, organic reactions		nomenclature and name reactions		
			compounds . Electronic displaceme nts in a covalent bond: inductive effect, electrometr					

		ic effect, resonance and hyper conjugatio n. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocatio ns, carbocatio ns, carbanions, electrophil es and nucleophile s, types of organic reactions.					
BIOLOGY	CH- 14	Respiration in Plants Glycolysis, Fermentation, Aerobic respiration, TCA cycle, ETS and oxidative phosphorylati	To make the student understand the mechanism of Glycolysis and relate it with other physiological process.To make them	PPT Screen Sharing Explanation Experiential Learning Critical Communication and Collaboration	student will be able to understand the mechanism of Glycolysis and relate it with other physiological process. They will be	To compare the rate of respiration in germinating seeds (carbohydr ate, proteins .and fats)	

	CH- 15	on, and RQ values.	differentiate between Fermentation/A naerobic and Aerobic respiration.		able to differentiate between Fermentation/ Anaerobic and Aerobic respiration.		
		Plant Growth and Development. Plant growth & Regulators.	To make the student understand about growth and Development. To make them analyze growth and development with different growth regulators and its importance in day to day life.	PPT Screen Sharing Explanation Experiential Learning Critical Communication and Collaboration	Students will be able to Differentiate between growth and development. They will be able to analyze the factors affecting plant growth and importance of growth regulators.	Analyze the different tropic movements in plants.	
	CH - 17	Breathing and Exchange of Gases Cellular Respiration, Respiratory Organs, Respiratory Volume Disorders.	Explain the different types of Respiration with examples. To familiarize with different Respiratory organs To make them understand and differentiate between breathing and	Screen Sharing Explanation Experiential Learning Critical Communication and Collaboration	Students Will be able to describe how oxygen is transported in the blood, and explain how oxygen loading and unloading is affected by temperature, pH, temp and pCO2.	Evaluate how increase in temperatur e and decrease in pH (increase in pCO2)affec ts oxygen unloading.	

			respiration.				
MATHS	CHAPTER -13	LIMITS AND DERIVATIVE S Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions. Definition of derivative relateit to scope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.	Students will be able to learn / understand about 1. Algebra of limits 2. Limits of polynomials and rational functions 3. Limits of Trigonometric Functions 4. Limits of Logarithmic and Exponential Functions 5. Algebra of derivative of functions 6. Derivative of the functions from first principle 7. Derivatives of functions	Worksheet to be given Learning by doing method PYQS HOTS CASE STUDY QUESTIONS DISCUSSION EXPLANATION	Students learned about 1. Algebra of limits 2. Limits of polynomials and rational functions 3. Limits of Trigonometric Functions 4. Limits of Logarithmic and Exponential Functions 5. Algebra of derivative of functions 6. Derivative of functions 6. Derivative of the functions from first principle 7. Derivatives of functions 8. Visualization of change 9. Dependency Evolves the concepts of limit and derivative of a function by analyzing the behavior of functions when the corresponding variable approaches a certain value	1. Multiple Choice Questions. 2.Give the Case study question related to topic. 3.Exercise which are given in textbook. 4.Question from Exemplar NCERT	Students will be able to develop 1. Visualization of change when other thing changes. 2. Dependency

	Chapter -14 Statistics	Measures of Dispersion: Range, mean deviation, variance and standard deviation of ungrouped/grou ped data. Analysis of frequency distributions with equal means but different variances.	Students will be able to learn / understand about 1. Measures of Dispersion 2. Range 3. Mean Deviation 4. Variance and Standard Deviation 5. Coefficient of variation 6. Analysis of Frequency Distributions	Worksheet to be given Learning by doing method PYQS HOTS CASE STUDY QUESTIONS DISCUSSION EXPLANATION	Students learned about 1. Measures of Dispersion 2. Range 3. Mean Deviation 4. Variance and Standard Deviation 5. Coefficient of variation 6. Analysis of Frequency Distributions 7. deviation and effectiveness of data collected	 Multiple Choice Questions. Give the Case study question related to topic. Exercise which are given in textbook. Question from Exemplar NCERT 	Students will be able to develop 1. interpretation and analyze the data 2.Effectiveness of data
AI	Unit 3 Unit 4	PART B : Subject Skills • UNIT – 3: DATA LITERACY – DATA COLLECTION TO DATA ANALYSIS UNIT-4 : MACHINE LEARNING ALGORITHMS	To explore various data collection methods and their application	lecture method Powerpoint slides Visual aids	Visualize the data using different techniques	It lays the foundation for reliable, accurate, and meaningful results.	

PHYSI EDUCA	ICAL ATION	Unit 8	Fundamenta l of Kinesiology and Biomechanic s in Sports	Students have the knowledge of Kinesiology and Biomechanics of the human body. They will get more information about the Principles of Biomechanics. Types of body movements and Axis and Planes.	Discussion Explanation of Topics with examples Reading Chapter	After going through the chapter the students will be able to identify the movements of the human body.	Practical Presentatio n of the human body while sitting and standing. (Flexion, Extension, abduction, Adduction etc.)	Students will be able to understand the movements of body and joints.
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MONTH: DECEMBER

<u>Month & No.</u> of working days	<u>Subject</u>	<u>Lesson</u> <u>No.</u>	<u>Lesson Name&</u> <u>topic</u>	Learning objective	Pedagogy (Activities and resources)	<u>Learning</u> <u>Outcome</u>	<u>Assessment</u>	<u>Life Skills</u>
	ENGLISH	Liter atur e Writi ng	Hornbill: Silk Road Snapshots: Birth Writing: Speech, Advertisement	Students will be able to identify , analyze , interpret and describe the critical ideas , values and themes that appear in the literary prose and poems. The student is able to: (i) master the	PPT Screen Sharing Explanation Experiential Learning Critical Communication and Collaboration	Students will be able to follow instructions and directions. Make inferences and judgment. Present various	All the competenc ies will be assessed through subject enrichment activities like creativity and innovation, critical thinking, communic ation, collaborati	Students will be able to Critically analyze the prose and poetry. Appreciate the beauty , rhyme, style, genre of the poem and prose.

		Mechanics of	interpretation	on	Students will be able
		writing; the use	s of the	. .	to apply the grammar
		of correct	poem and	Assignmen	rules as per need in
		punctuation	prose	ts,	framing sentences and
		marks and	creatively	Worksheet	ideas while writing
		capital letters; (ii)	and critically.	s, Tests	using the apt formats.
		spell words	,		
		correctly: (iii)			
		write neatly and			
		legibly with			
		reasonable			
		speed: (iv) use			
		appropriate			
		vocabulary: (v)			
		use correct			
		grammatical			
		items: (vi) write			
		coherently in			
		more than one			
		naragraph: (vii)			
		paragraph, (VII)			
		fluently and			
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		storios ovents			
		processes ato:			
		processes etc,			
		(VIII) WITLE			
		people, places			
		and things and			
		imaginativaly to			
		toxtual			
		questions, (ix)			
		while pragraphs,			
		and official			
		anu onicial)			
		simple, narrative			
		pieces, reports,			
		notices,			
		messages, diary			
		entries etc; (x)			

				make notes and summarise; (xi) edit written material (xii) expand notes.				
P	HYSICS	Chapter–10: Chapter–11:	Mechanical Properties of Fluids Thermal Properties of Matter	Learner can -applies concepts of viscosity and surface tension in daily life while making decisions and solving problems Handles tools and laboratory apparatus Capillary tube properly; Learner can relate different coefficient of thermal expansion	 Experiment: 5. To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body. 6. To study the relationship between the temperature of a hot body and time by plotting a cooling curve. 7. To determine specific heat capacity of a given solid by method of mixtures. Activities 1. To observe change of state and plot a cooling curve for molten wax. 2. To observe and explain the effect of heating on a bi-metallic strip. 	 can measures physical quantities like surface tension using appropriate apparatus, instruments, and devices. -Can explain the concept of Cp and Cv and can relate it can understand importance of anomalous behaviour of water for existence of aquatic life 	https://drive.g oogle.com/fil e/d/0B8hXbv n1ab-BXzFQ UG4za044ZE U/view?resou rcekey=0-E b FaaA-2CI0x31 Cko96jg https://drive.g oogle.com/fil e/d/0B8hXbv n1ab-BT3U5a IdVY0pPU0k /view?resourc ekey=0-aKCf TAmfaN5fV DSTGfc_sA	
С	HEMISTRY	ch-9	hydrocarb ons Aliphatic Hydrocarbo ns Alkanes - Nomenclat ure,	students will understand the classification of hydrocarbons identify and describe the structure and bonding, reactions of hydrocarbons	conceptual explanations, 3D models demonstration	students will classify hydrocarbons, identify the properties, will know the reactions including hydrocarbons, importance of hydrocarbons	Assignment s, worksheets Ncert questions	practical application of knowledge, environment awareness, problem solving approach

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(ethene),			
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isomerism,			
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	preparation			
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	reactions:			
	addition of			
	hydrogen,			
	halogen,			
	water,			
	hydrogen			
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	(Markovnik			
	ov's			
	addition			
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	peroxide			
	effect),			
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	oxidation,			
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DIOLOCY			To make the sec	DDT	The learning lase (Te mela	
BIOLOGY	CH- 18	Body Fluids and Circulation.	aware about	Screen Sharing	and understood	punnett	
		Cellular	different components of	Explanation Experiential Learning	about the different components of	square to prove the	
		Respiration,	Blood To differentiate	Critical Communication	blood , blood groups and mechanism of	blood group detected by	

		Organs, Respiratory Volume Disorders	between blood and Lymph (tissue fluid) Blood groups and Rh factor. To make them understand about the mechanism of blood clot .		blood clotting. The learners comprehended and analyzed the cardiac cycle They understood the mechanism of heart beat and interpreted it with a pacemaker.	analysis satisfies the phenotypic ratio by crossing the parental blood groups.	
	CH - 19	Excretory Products and Their Elimination Modes of Excretion, Human excretory system, Kidney function and disorders.	To make the familiarize with the different parts of Human excretory system To explain about the mechanism of Urine formation Micturition To make them aware about different disorders	PPT Screen Sharing Explanation Experiential Learning Critical Communication and Collaboration .	The students will be able to understand the physiology & mechanism of excretion.	To analyze the presence of sugar, bile salts, urea in urine.	
	CH - 20	Locomotion & Movement. Skeletal muscles, Muscle contraction Nervous system in humans, CNS, PNS & ANS ,nerve impulse.	of Excretory system. Students will be able to Classify the skeleton system into Axial and Appendicular system Categorize different types of muscles. Analyze anatomical structures of skeleton in relationship to their physiological functions	Activity 1.Explore the bones, muscles and joints in human skeletal system. 2. Puzzle - Assemble bones of human skeleton 3.Identifying different activities by using different muscles striated, non striated and smooth muscles 4. Role play of synovial joints with various day to day life activities.	Students Will be able to Compare between male and female skeletons. They will be able to differentiate between the bones of individuals at different ages.	Study of different types of bones and cartilage of human body by models.	
MATHS	Chapter -15	Probability Random experiments; outcomes, sample spaces (set	Students will be able to learn / understand about 1. Random experiments 2. Outcomes and sample space 3. Types of events 4. Algebra of events 5. Prohability of an	Worksheet to be given Lecture method Indo-deductive method Learning by doing method	Builds up the axiomatic approach to Probability through the terms, random experiment,	 Multiple Choice Questions. Give the Case study question related to 	Logical Thinking, Problem Solving, analytical skills developed

			event		Comple space	tonio	l i i i i i i i i i i i i i i i i i i i	
		representatio	croit		Sample space,	2 Eversion		
		n). Events;			events etc	J.EXEICISE		
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		theoretic)						
		probability,						
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		with other						
		theories of						
		earlier classes.						
		Probability of						
		an event,						
		probability of						
		'not', 'and'						
		and 'or'						
		events.						
AI	Unit 7		understand the	Lecture method	learn new			
		PART B : Subject	challenges of		techniques and			
	l Init 8	Skills	NLP and its	powerpoint Slides	algorithm for			
			importance in		NLP task			
		• UNIT 7 –	modern	visual aids				
		LEVERAGING	technology					
		LINGUISTICS						
		AND						
		COMPUTER						
		SCIENCE						
		UNIT 8 – AI						
		ETHICS AND						
		VALUES						
PH ED	HYSICAL DUCATION	Unit 9	Psychology in Sports	Students will be able to understand the importance of Psychology in sports. Explanation of Adolescent problems and management of it. An introduction to Psychological Attributes.	Learning Critical Communication Explanation with examples	After understanding the chapter students will be able to understand the Psychology in Physical education and sports.	Assessme nts will be done by discussing more about the chapter.	Students will be able to understand the Psychology of Sports person and The problems faced by Adolescent problems.
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		Unit 10	Training and Doping in sports	Students will be able to understand the Principles of sports training and mechanism of Training Load (Overload, Adaptation and Recovery) Disadvantages of Doping.	Learning Critical Communication Explanation with examples	After understanding the chapter students will be able to understand the mechanism of training. Doping disadvantages.	Assessme nts will be done by discussing more about the chapter.	Students will be able to understand the Doping Disadvantages and Concept of skills, Techniques and Tactics.

MONTH: JANUARY

Month & No.	<u>Subject</u>	Lesson No	Lesson Name&	Learning objective	Pedagogy (Activities and resources)	Learning Outcome	<u>Assessment</u>	<u>Life Skills</u>
davs		<u></u>			<u>resourcesj</u>	<u>Outcome</u>		

П	NGLISH				DDT			
		Liter atur e	Hornbill: Father to Son Snapshots: The Tale of Melon City (Poem)	Students will be able to identify , analyze , interpret and describe the critical ideas , values and themes that appear in the literary prose and poems.	Screen Sharing Explanation Experiential Learning Critical Communication and Collaboration	Students will be able to follow instructions and directions. Make inferences and judgment.	All the competenc ies will be assessed through subject enrichment activities like creativity and innovation, critical	Students will be able to Critically analyze the prose and poetry. Appreciate the beauty , rhyme, style, genre of the poem and prose.
				The student is able to: (i) master the Mechanics of writing; the use of correct punctuation marks and capital letters; (ii) spell words correctly; (iii) write neatly and legibly with reasonable speed; (iv) use appropriate vocabulary; (v) use correct grammatical items; (vi) write coherently in more than one		Present various interpretation s of the poem and prose creatively and critically.	thinking , communic ation , collaborati on Assignmen ts, Worksheet s, Tests	Students will be able to apply the grammar rules as per need in framing sentences and ideas while writing using the apt formats.
				paragraph; (VII) complete accurately and fluently semi controlled compositions like stories, events.				

PHYSICS			processes etc; (viii) write description of people, places and things and respond imaginatively to textual questions; (ix) write pragraphs, letters. (personal and official) simple, narrative pieces, reports, notices, messages, diary entries etc; (x) make notes and summarise; (xi) edit written material (xii) expand notes.	8 To study the relation	Can Differentiate	https://drive.g	
	Unit IX: Behavior of Perfect Gases and Kinetic Theory of Gases Chapter–13: Unit X: Chapter–14	Kinetic Theory	about law of thermodynamics and Heat engine Learner can derive the expression for Gas pressure and can relate it with Kinetic energy. Can understand the concept of degree of freedom and can relate it with specific heat of mono-atomic , diatomic and triatomic gasses.	 between frequency and length of a given wire under constant tension using sonometer. 9. To study the relation between the length of a given wire and tension for constant frequency using sonometer. 10. To find the speed of sound in air at room temperature using a resonance tube by two resonance positions. resonance positions. PERIODIC TEST-II 	between periodic motion and simple harmonic motion. Concept of total mechanical energy of oscillating particle in SHM	oogle.com/fil e/d/0B8hXbv n1ab-BalVsT mhKQ1ZIRW c/view?resour cekey=0-T82f HVSn9yyOL 9MjCNGQxQ https://drive.g oogle.com/fil e/d/0B8hXbv n1ab-BZEO1 ZIMxbXE5V FU/view?reso urcekey=0-Rx yweU-FBOq O7dktPmAp Ow	

		Oscillations				ogle.com/file/ d/0B8hXbvn1 ab-Ba3hpd28t Qjd4SjA/vie w?resourceke y=0-yR8vJUf eHy415Ne9d 1WjNQ	
CHEMISTRY	Revision of full syllabus						
BIOLOGY	CH - 21.	Neural Control and Coordination Skeletal muscles, Muscle contraction Nervous system in humans, CNS, PNS & ANS ,nerve impulse.	Students – Will study several major organs that function as a part of nervous system. They will study the role of different sensory receptors in humans in converting different forms of energy into nerve impulse.	Different activities to observe the reflex action in day to day life eg; by observing sudden with drawl of finger or hand with hot, cold water or pointed objects, jerking of knee when hit below knee cap.	*Students will be able to demonstrate that the nervous system is responsible for communication between different parts of the body , detecting stimuli in the body and directing body's responses.	Categorize and interpret the cause of different hormonal diseases.	
	CH - 22	Chemical Coordination and Integration Endocrine Glands hormones and Their functions with disorders.	Describe and explain the transmission of an action potential in a myelinated neuron. (The importance of sodium and potassium ions in the impulse transmission should be emphasised.)	PPT Screen Sharing Explanation Experiential Learning Critical Communication and Collaboration	*Students will be able to describe the structure of a typical neuron and indicate the function(s) of each of its parts Students will be able to explain the transmission of hormones .	Identify and describe the effects of the hormones that are released by the anterior pituitary gland. Know what stimulates their production and where they are	

					produced. Understand how the regulation of GH, PRL, and MSH differs from that of TSH, ACTH, LH, and FSH.	
MATHS						
AI	 Revision Tests Project Work Practical File 	 Revision Tests Project Work Practical File 	 Revision Tests Project Work Practical File 	 Revision Tests Project Work Practical File 	 Revision Tests Project Work Practical File 	
PHYSICAL EDUCATION	Revision and Preparation for Annual Exams	Students will be able to identify , analyze , interpret and describe the critical ideas , values and themes that appear in the literary prose and poems	Explanation Experiential Learning Critical Communication and Collaboration	Students will be able to take the examination properly.	Test will assess the performan ce of students.	They will be able to answer the questions related to the syllabus.

MONTH: FEBRUARY

Month & No.	<u>Subject</u>	Lesson	Lesson Name&	Learning objective	Pedagogy (Activities and	<u>Learning</u>	Assessment	Life Skills
<u>of working</u>		<u>No.</u>	<u>topic</u>		<u>resources)</u>	<u>Outcome</u>		
<u>days</u>								

ENGLISH	Full			PPT			
ENGLISH	Full Sylla bus Revi sion and Fina I Exa min atio ns	Full Syllabus Revision	Students will be able to identify, analyze, interpret and describe the critical ideas, values and themes that appear in the literary prose and poems. The student is able to: (i) master the Mechanics of writing; the use of correct punctuation marks and capital letters; (ii) spell words correctly; (iii) write neatly and legibly with reasonable speed; (iv) use appropriate vocabulary; (v) use correct grammatical items; (vi) write coherently in more than one paragraph; (vii)	PPT Screen Sharing Explanation Experiential Learning Critical Communication and Collaboration	Students will be able to follow instructions and directions. Make inferences and judgment. Present various interpretation s of the poem and prose creatively and critically.	All the competenc ies will be assessed through subject enrichment activities like creativity and innovation, critical thinking, communic ation, collaborati on Assignmen ts, Worksheet s, Tests	Students will be able to Critically analyze the prose and poetry. Appreciate the beauty , rhyme, style, genre of the poem and prose. Students will be able to apply the grammar rules as per need in framing sentences and ideas while writing using the apt formats.
			coherently in more than one paragraph; (vii) complete accurately and fluently semi controlled compositions like stories, events.				

			processes etc; (viii) write description of people, places and things and respond imaginatively to textual questions; (ix) write pragraphs, letters. (personal and official) simple, narrative pieces, reports, notices, messages, diary entries etc; (x) make notes and summarise; (xi) edit written material (xii) expand notes.				
PHYSICS	Unit X: Chapter– 14 Chapter15-	Oscillations Chapter15- Waves - continue	-can derive the expression for time period and frequency of different S.H.M. in nature Handles tools and laboratory apparatus like sonometer and resonance tube properly.	REVISION FOR SESSION ENDING EXAMNAION PRACTICAL EXAMINATION	Can analyse different mode of vibrations in stretched string, open organ pipe and closed organ pipe.fundamental mode and harmonics, Beats, Doppler effect.	https://drive.g oogle.com/fil e/d/0B8hXbv n1ab-BYXh6 NEFTUDIoZ mc/view?reso urcekey=0-x NwnFg3zbn2 rQX1BLDi7u W https://drive.g oogle.com/fil e/d/0B8hXbv n1ab-BckU0R jU0SFQxQ1k /view?resourc ekey=0-sam7r 7EDI_8jEIzy SOBYg	

CHEMISTRY	revision of full syllabus						
BIOLOGY			REVISION				
MATHS							
AI	Revision for final exam	Revision for final exam	Revision for final exam	Revision for final exam	Revision for final exam	Revision for final exam	Revision for final exam
PHYSICAL EDUCATION		Full Syllabus Revision	Students will be able to identify , analyze , interpret and Solve questions.	Explanation Experiential Learning Critical Communication	After going through this chapters, the students will be able to do questions.	Test will assess the performan ce of students.	They will be able to answer the questions related to the syllabus.