

# **CLASS :XII (SCIENCE-**

# Medical / NON Medical)

# **EXTENSIVE CURRICULUM**

# (2025-2026)



#### **MONTH: APRIL**

Mon <u>&amp; No</u> of work g day	<u>h</u> Subject : in s	<u>Less</u> on <u>No.</u>	<u>Lesson Name&amp;</u> <u>topic</u>	<u>Learning objective</u>	<u>Pedagogy (</u> <u>Activities and</u> <u>resources)</u>	<u>Learning</u> <u>Outcome</u>	<u>Assessment</u>	<u>Life</u> <u>Skill</u> <u>S</u>	
	ENGLISH	Flamingo	Flamingo: 1. The Last Lesson 2. Lost Spring Poem: My mother at Sixty Six 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 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,	PPT Screen Sharing Explanation Experiential Learning Critical Communicati on and Collaboration	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 competencies will be assessed through subject enrichment activities like creativity and innovation, critical thinking , communication , collaboration Assignments, Worksheets, Tests	Stude nts will be able to Critic ally analy ze the prose and poetr y. Appr eciat e the beaut y, rhym e, style, genre of the poem and prose	

		processes etc; (viii)			
		write description of			
		people, places and			
		things and respond		Stude	
		imaginatively to		nts	
		textual questions;		will	
		(ix) write pragraphs,		be	
		letters. (personal		able	
		and official) simple,		to	
		narrative pieces,		apply	
		reports, notices,		the	
		messages, diary		gram	
		entries etc; (x)		mar	
		make notes and		rules	
		summarise; (xi) edit		as	
		written material (xii)		per	
		expand notes.		need	
				in	
				frami	
				ng	
				sente	
				nces	
				and	
				ideas	
				while	
				writi	
				ng	
				using	
				the	
				apt	
				form	
				ats.	

	PHYSICS	Unit1- Electrost atics Cha pter 1 Cha pter 2	Electric charges and fields Electrostatic potential and capacitance SECTION-A EXPERIMENT-1 EXPERIMENT-2	Students will Explains processes, phenomena and laws with the understanding of the relationship between nature and matter on scientific basis; such as, force between charges, flux due to a charge, electric field and potential due to charges and distribution of charges, equipotential surface polarization of dielectric, charging of capacitor; Derive Formulae And Equations, such as, electrostatic forces and fields due to charge distributions; potential energy of system of charges; torque on a dipole in uniform electric field; combination of capacitors in series and in parallel; energy stored in capacitor.	SECTION-A ACTIVITY-1, 2 A 1. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source. A 2. To assemble the components of a given electrical circuit.	students will be able to applies concepts of physics in daily life with reasoning in solving problems; such as, if a certain capacitance is required in a circuit across a certain potential difference then suggesting a possible arrangement using minimum number of capacitors of given capacity which can withstand a given potential difference	<ul> <li>Derivation of Electric field due to a dipole torque on dipole in uniform electric field.</li> <li>Applications of Gauss law.</li> <li>Potential and potential energy of the system of charges.</li> <li>Capacity of parallel plate capacitor and energy stored in capacitor.</li> <li>Numerical, conceptual questions, MCQs&amp; Assessment Reasoning Questions on above concepts</li> <li>https://drive.google.com/f ile/d/1LW5g5GkGRbF6 MdVvvpx5oBcCflp-K1 Q /view</li> <li>Class Test /Monthly test (Chapter wise / Topic wise)</li> </ul>			
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CHEMIST	UNIT-I	Solution	Students will	Problem	Students will	1. Practice of MCQs	Stude	
RY	Chanter-		understand the	solving	be able to -	through worksheet.	nts	
	1		following topics-	Explanation	*Explain	2. Practice of	will	
	'			Demonstration	scientific	Assertion/Reason type	be	
			concentration of	Experiential	terms, laws	questions.	able	
			solution and related	Learning	etc. *Derives	3. Practice of PBQs.	to-	
			numericals, Henry's	Subject	equations &	4. Practice of calculations	-appl	
			law, Raoult's law,	enrichment	calculates	5 Practice of plotting	v the	
			colligative properties	activities	using the	graphs showing colligative	conc	
			and numericals, Van't	Active learning	values given.	properties	ent of	
		Electrochemistry	Hoff factor	Collaborative	*Draw graphs	6. Practice of set up	solub	
	UNIT-II			learning	to understand	electrochemical cells.	ility	
	Chapter-		Electrolytic and	louining	colligative		of	
	2				properties		gases	
	<b>–</b>			Resources_	-perform the		in	
			Kehlrouseh low and	<u>Notes link</u>	experiments		maki	
			Foradov's low of	<u>Hotes mik-</u>			ng	
			electrolysis	Solution-			hever	
		Practical	ciectiolysis.	https://www.vo		Class Test /Monthly test	ages	
				utube com/wat		(Chapter wise / Topic wise)	Ann	
				ch?v=1VElCP7			Ly the	
			D (* 01 1.1)	GFI&list=PL			know	
			Preparation of lyophilic	Nz32RYOjBer			ladga	
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				Tyophobic sol			temp	

				preparation.			eram ent and inqui sitive ness.	
BIOLOGY	CH- 2	Human Reproduction Male and female reproductive system, Gametogenesis Fertilization Parturition	Students will be able to know about Male and female reproductive system, Gametogenesis - spermatogenesis & oogenesis.Fertilization Parturition.	To make them learn and understand about the of Male and Female reproductiv e System	.PPT Screen Sharing Explanation Discussion Demonstrati on EXPERIENT IAL LEARNING	Understood about the evolutionary advantages of the genetic variation that comes from sexual reproduction.		
		Reproductive Health Prevention of STD Birth control methods Medical termination of Pregnancy Amniocentesis Infertility and assisted reproductive technologies.	Students will be able to know about Prevention of STD Birth control methods Medical termination of Pregnancy Amniocentesis Infertility and assisted reproductive technologies.	Learn and understand on the hormonal changes during puberty. Disorders of the reproductiv e system Create awareness regarding various sexually transmitted diseases Educate and make them	PPT Screen Sharing Explanation Discussion Demonstrati on	Students will inculcate the applications of Assisted Reproduction Technologies which assist infertile couples to have children. Students will be educated regarding developments to overcome population explosion.		Students will develop decision making and logical thinking.

				aware of Amniocente sis To make aware of different Assisted reproductiv e technologies	PROJECT-B ASED LEARNING			
MATHS	CHAPTE R 4 DETER MINANT S	* To enable the students to understand operation on matrices, application of matrices, solution of equation by matrix method.Its properties, Meaning of determinant, evaluation of determinant for a square matrix, Solution of determinants using properties	<ul> <li>Through problems based on Matrix and Determinant s, they will develop 1)Imagination 2)Systematic approach 3)To handle real life situation</li> </ul>	inductive and Deductive Reasoning Collaborativ e Learning Critical thinking logical reasoning	Students learnt about: operation on matrices, application of matrices, solution of equation by matrix method. Its properties, Meaning of determinant, evaluation of determinant for a square matrix, Solution of determinants using properties	Assessment will be done on the basis of decided Rubrics	Pr obl em So Ivi ng an d Cri tic al Thi nki ng Coll abo rati on and	

							Co mm uni cati on	
COMPUTE R SCIENCE	Databas e concepts	Relational model,Sql,Sql Commands	Students should be able to understand the core ideas behind DBMS, create and manipulate relational databases using SQL	Practical using SQL command, Discussion	students should be able to design, implement, and manage relational databases using SQL, understand database principles, and apply normalizatio n techniques to improve database design	MySQL Practical	tec hni cal exp erti se in are as like SQ L, dat aba se des ign, and dat a sec urit Y	
PHYSICAL EDUCATIO N	Unit 1	Manageme nt of sporting Events	Students will be able to describe the management of different events like organising and planning a sports event. Scoring and managing on going sports event activities and later on activities of the event.	Explanation with example Learning Explanation on board	Students will be able to organise the on going event activities and will be able to make fixtures for the events.	All the competencies will be assessed through subject enrichment activities like making fixtures for tournaments and planning or organizing events.	Pla nni ng, Sta ffin g and Org ani sin g spo rts	

		Unit 2	Children and Women in sports	Students will be able to understand the importance of women participation in sports events. They will also know about Common Postural Deformities and Female Athlete Traid	Explaining with examples Learning Cross questioning	Students have learnt about the participation of women and children in sports. Common Postural Deformities in Children.	Assessment will be done by question answering. Explaining children about the chapter.	eve nts.		
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## **MONTH: MAY**

<u>Month &amp;</u> <u>No. of</u> working days	<u>Subject</u>	<u>Lesson</u> <u>No.</u>	<u>Lesson Name&amp;</u> <u>topic</u>	<u>Learning</u> objective	Pedagogy ( Activities and resources)	Learning Outcome	<u>Assessment</u>	Life Skills
	ENGLISH	Literature Vistas Writing	Vistas: 1. The Third Level 2. The Tiger King Writing: Advertise ments - Classified	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. Present various	All the competenci es will be assessed through subject enrichment activities like creativity and innovation, critical thinking, communica tion, collaboratio	Students will be able to Critically analyze the prose and poetry. Appreciate the beauty , rhyme, style, genre of the poem and prose.

		master the	interpretati	n	
		Mechanics of	ons of the		Students will be
		writing; the	poem and	Assignment	able to apply the
		use of correct	prose	S,	grammar rules as
		punctuation	creatively	Worksheets	per need in
		marks and	and	, Tests	framing sentences
		capital letters:	critically.		and ideas while
		(ii) spell words			writing using the
		correctly: (iii)			ant formats
		write neatly			upt formuts.
		and legibly			
		with			
		reasonable			
		speed: (iv)			
		speed, (iv)			
		appropriato			
		(v) use correct			
		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; (xi) edit written material (xii) expand notes.				
PHYSICS	Unit I -Electrostatic s Chapter 2 Unit II - Current electricity Chapter 3	-Electrostatic potential and capacitance Current electricity		EXPERIMENTS SECTION A 1. To determine resistivity of two/threewire by plotting a graph for potential difference versus current		Holiday Home works to be given. Investigatory project to be allotted to students.	

CHEMICTRY			Q <sub>1</sub> 1 ( <sup>11</sup>	D 11 1	Otivida est illut	1 Dractice of	
CHEMISTRY	UNIT–III Chapter–3 Practical	Chemical Kinetics	Students will understand the following concepts- Rate of a reaction, factors affecting, first order & zero order reaction, numericals based, integrated rate equatins for zero order and first order reaction, Arrhenius equation and numericals. Experiment- Detection of functional group in organic compound (alcoholic, amine, aldehyde, ketonic, phenolic, carboxylic acid)	Problem solving Explanation Demonstration Experiential Learning Subject enrichment activities Active learning Collaborative learning NOTES- (CH-3) https://drive.goo gle.com/file/d/1v tCLNHWsfGgwf F0iriwDs3MZvp KJADH-/view	Students will be able to- Understand the various concepts. *Explain scientific terms ,law etc. *Draws graphs to understand various concepts. *Derives equations & calculates using the values given. *Applies scientific concepts in daily life & solving problems.	1. Practice of MCQs through worksheets 2. Practice of Assertion/Reason type questions. 3. Practice of PBQs. 4. Practice of rate of reaction, rate constant and half-life calculations. <u>Notes link-</u> https://docs.googl e.com/presentation n/d/1vtCLNHWsf GgwfF0iriwDs3M ZvpKJADH-/edit? usp=sharing&oui d=101800394715 389172696&rtpof =true&sd=true -Holiday Home works to be given. Investigatory project to be allotted to students.	Students will -develop scientific temperament and inquisitiveness. *Applies scientific concepts in daily life & solving problems.

BIOLOGY	Chapter-2	Human Reproduction Male and female reproductive system, Gametogenesis Fertilization Parturition	To make them learn and understand about the of Male and Female reproductiv e System Learn and understand on the hormonal changes during puberty.	.PPT Screen Sharing Explanation Discussion Demonstration EXPERIENTIAL LEARNING	Understood about the evolutionary advantages of the genetic variation that comes from sexual reproduction.		
	Chapter-3:	Reproductiv e Health Prevention of STD Birth control methods Medical termination of Pregnancy Amniocentesi s Infertility and assisted reproductive technologies.	Disorders of the reproductiv e system Create awareness regarding various sexually transmitted diseases Educate and make them aware of Amniocente sis To make aware of different Assisted reproductiv	PPT Screen Sharing Explanation Discussion Demonstration PROJECT-BASE D LEARNING	Students will inculcate the applications of Assisted Reproduction Technologies which assist infertile couples to have children. Students will be educated regarding developments to overcome population explosion.		Students wil develop decision making and logical thinking.

			e technologies					
MATHS	chapter 1	Relations & Functions	To enable the students understand Equivalence relations, bijective functions. Different types of relations and functions, finding domain and range and inverse of functions and binary operation.	Problem solving Explanation Demonstration Experiential Learning Subject enrichment activities Active learning Collaborative learning	students wii able to understand Equivalence relations, bijective functions. Different types of relations and functions, finding domain and range and inverse of functions and binary operation.		Assessment will be done on the basis of decided Rubrics	Through problems based on Relations and functions they will Develop: 1)Logical thinking 2)Critical thinking 3)Imagination
COMPUTER SCIENCE	Database concepts	Aggregat e functions, joins, cartesian product	Students should be able to understand the core ideas behind DBMS, create and manipulate relational databases using SQL	Practical using SQL command, Discussion	students should be able to design, implement, and manage relational databases using SQL, understand database principles, and apply normalization techniques to improve database design	MySQL Practical	technical expertise in areas like SQL, database design, and data security	

PHYSICAL EDUCATION       Unit 3       Yoga as       Stu be preventiv         e       diff         Measure for lifestyle       yog for         bisease       disease         bisease       bisease	Students willExplaining with examplesSbe able toexamplesununderstandPerformingindifferentasanasyovoga asanasLearning withhoor differentpracticeorypes offreddiffect ourbody forbody forexample:body forbody for	Students have understood the importance of yoga in life and how it keeps our body away from diseases.Students will be able to add yoga asanas in their schedule to make their body fit.	
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### **MONTH: JULY**

Month & No. of working days	<u>Subject</u>	<u>Lesson</u> <u>No.</u>	Lesson Name& topic	Learning objective	Pedagogy ( Activities and resources)	<u>Learning</u> <u>Outcome</u>	<u>Assessment</u>	<u>Life Skills</u>
	ENGLISH	Literature Flamingo Vistas Writing	Flamingo: 3. Deep Water Vistas: 3. Journey to the End of the Earth 4. The Enemy Writing; Poster	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	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	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. Students will be able to apply the grammar rules as per need in

		of correct	prose	A	framing sentences and
		punctuation	creatively	Assignmen	ideas while writing
		marks and	and critically.	ts,	using the apt formats.
		capital letters:	,	Worksheet	
		(ii) spell words		s, Tests	
		correctly, (iii)			
		write neatly and			
		legibly with			
		reasonable			
		speed; (iv) use			
		appropriate			
		vocabulary; (v)			
		use correct			
		orammatical			
		items: (vi) write			
		cohorontly in			
		concreting in			
		more man 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, parrative			
		nieces reports			
		notices			
		monogoo diari			
		messages, diary			
		entries etc; (x)			
		make notes and			

			summarise; (xi)				
			edit written				
			material (xii)				
			expand notes.				
PHYSICS	UNIT- III MAGNE TICEFF ECTS OFCUR RENT AND MANETISM Chapter-4: Chapter-5:	Moving Charges and Magnetism Magnetism and Matter	Explains processes, phenomena and laws with the understanding of the relationship between nature and matter on scientific basis such as forces on moving charges in a magnetic field, torque on a rectangular current loop in an uniform magnetic field Derives formulae and equations, such as magnetic field on the axis of a circular current loop, force between parallel current carrying conductors, torque on current loop in magnetic field.,	<ul> <li>EXPERIMENTS SECTION <ul> <li>A 3. To verify the laws of combination (series) of resistances using a meter bridge.</li> </ul> </li> <li>ACTIVITIES SECTION <ul> <li>A 3. To study the variation in potential drop with length of a wire for a steady current.</li> </ul> </li> <li>4. To compare the EMF of two given primary cells using potentiometer.</li> <li>5. To determine the internal resistance of a given primary cell using potentiometer.</li> </ul>	Applies concepts of physics solving problems on trajectory of charged particle in magnetic field, finding magnetic field due to a circular coil & solenoid, converting galvanometer into ammeter and voltmeter Recognises the concepts of Physics related to various natural phenomena such as magnetic properties of materials	<ul> <li>Derivation of Magnetic field due to a circular loop carrying current.</li> <li>Magn etic field due to a solenoid Force between two parallel current carrying conductors.</li> <li>Torque on current loop in magnetic field Statement of Biotsavart law and Ampere's law</li> <li>https://drive.goo gle.com/file/d/1</li> <li>N&amp;gVKBLectr6o zD14JgjS0xVCvf LnL6K/view</li> </ul>	

CHEMISTRY	UNIT–V CHAPTER-5	Coordination compounds	Students will understand the following topics- -Terms related to complexes, IUPAC	Problem solving Explanation Demonstration Experiential Learning Subject enrichment activities	Students will be able to- *Differentiates technical terms/phenomena/ processes based on properties/	1.Practice of MCQs through Google form. 2.Practice of Assertion/Reas on type questions. 3.Practice of	Students will be able to -analyze the Importance of coordination compounds in our daily life like in cancer treatment, biological systems, in metal
	PRACTICA L		-nomenclature of coordination compounds, -Structure of complexes, -Isomerism in complexes, -Bonding in complexes, -Applications of coordination compounds. EXPERIMENT Salt Analysis (any five)	Notes link- https://docs.google.com/ presentation/d/1n1KGA6 aOHQJXtkWTUsVyfVK 3iMxJIqvl/edit?usp=shari ng&ouid=101800394715 389172696&rtpof=true& sd=true	cnaracteristics. *Relates processes & phenomena with causes/effects. *Explains scientific terms involving complex compounds. *Uses scientific conventions, symbols, chemical formulae, chemical equations as per IUPAC system. <b>PT-II will be</b> <b>conducted.</b>	PBQs. 4.Practice of structures. 5.Practice of writing electronic configurations and important features of these elements. 6.Practice of IUPAC nomenclature & isomerisms in coordination compounds	extraction. - develop scientific temperament and inquisitiveness.
BIOLOGY	CH-4	Principles of inheritance & variation Mendel's Laws of Inheritance Inheritance of one gene theory Inheritance of two gene theory Sex determination Mutation Genetic disorder.	Explain and understand Mendel's monohybrid and dihybrid experiment and draw the different laws like law of dominance, independent assortment, law of segregation. Understand and express the limitations of Mendel's experiment.	<ol> <li>Study the pedigree chart on the genetic traits like widow's peak, Rolling tongue, Blood group, color blindness .</li> <li>Study of Mendelian inheritance .</li> </ol>	Students have learnt to Illustrate the monohybrid and dihybrid crosses. Analyze and infer the cause of blood groups and its importance during blood transfusion. Understand the importance of blood donation, use of blood bank separation	To prepare a pedigree chart on any of the genetic diseases.	critical thinking of the society that females are not responsible for the sex of offspring as man is heterogametic and woman is homogametic.

			Describe		of various blood		
			Chromosomal		components.		
			theory of		Apply		
			inheritance and		quantitative		
			will understand		problem solving		
			Mendel's.		problems and		
					issues.		
		Molecular basis					
		of Inheritance					
	Сп-э		Understand the	Problem solving	The students will	1.Isolate DNA	
		The DNA The	location and	Explanation	understand the	from Plant	
		search of	chemical	Demonstration	Importance of	material.	
		Genetic Material	DNA. Explain the	Experiential Learning	activities The	sequences into	
		RNA World	process of protein	Subject enrichment	students learnt	DNA, RNA and	
		Replication	synthesis	activities	how DNA finger	Protein.	
		Transcription	Understand the		printing neips in Forensic	3.10 make	
		Genetic code	project which		sciences The	sequence of the	
		Regulation of	provide		learners learnt	given nucleotide.	
		gene expression	information for		about the human		
		Human Genome	diseases and its		which helped in		
		Project DNA	treatments.		identifying and		
		Fingerprinting.	Understand and		preventing many		
			express the		hereditary		
			sequencing of		uisease.		
			DNA by the				
			process of DNA				
			finger printing.				
		Evolution					
	СН- 6	Origin of life		Problem solving			
		Evolution of Life	Understand	Fynlanation	They will be able	<b>T</b>	
		forms Evidences	anterent theories	Demonstration	to evaluate the	IO MAKE	
		Adaptivo		Experiential Learning	Human denome	sequence of the	
		radiation		Subject enrichment	project in	given nucleotide.	
		Biological		activities	preventing	Study of	
		Evolution			innerited disease The	homologues organ	
		Mechanism of			learners could	in various plants	
		Evolution Hardy			apply the	and animals.	
		Weinberg			knowledge of		
		Principle Brief			human beings		

		Account of evolution Origin and evolution of man			by the molecular study of analogous and homologus organ in animals and their anatomical evidences.		
MATHS	Chapter 2	Inverse Trigonomet ry	To enable the students to find solutions of problems of inverse trigonometric functions. Inverse trigonometric functions ,its domain and range ,properties of inverse trigonometric functions	Problem solving Explanation Demonstration Experiential Learning Subject enrichment activities	Students learned about : Solutions of problems of inverse trigonometric functions. Inverse trigonometric functions ,its domain and range ,properties of inverse trigonometric functions	Assessmen t will be done on the basis of decided Rubrics	Through problems based on integration , they will develop 1)Manipulation(ass umptio n) 2) Logical thinking 3) Systematic approach
COMPUTER SCIENCE	UNIT- 1 (Computat ional Thinking and Programmi ng - II)	Introductio n of python Programmi ng	Key objectives include understanding Python's fundamentals, using data structures, writing functions, implementing object-oriented programming, and working with file	Discussion method, powerpoint slides, practical	write code, solve problems, and develop applications using Python's syntax, data structures, and libraries, including object-oriented programming concepts and file handling.	Python Programs based on Lists, Strings, Tuples and Dictionary	Python programming develops valuable life skills like problem-solving, logical thinking, and analytical abilities

PHYSICAL EDUCATION	Unit 4	Physical Education and sports for CWSN (Children with special needs- Divyang)	Students will be able to understand the importance of special Olympics, paralympics and deaflympics. Also get clarity in the concept of Inclusion in	Discussion Explanation of chapter with examples Reading	Students have understood the importance of physical activities for children with special needs. They will understand the concept of paralympics games for	Assessmen t will be done by cross questioning from students.	
	Unit 5	Sports and Nutrition	sports. Students will be able to understand about the balanced diet and nutrition for sports person. Discussion on Macro and Micro food sources.	Discussion Explanation of chapter with examples Reading	children with special needs. Students have understood the importance of diet and nutrition for sports personalities and how they manage to get a fit body by including macro or micro nutrition in diet.	Students Assessment will be done by cross questioning and discussing chapters in the class.	

### **MONTH: AUGUST**

<u>Month &amp; No.</u> of working days	<u>Subject</u>	<u>Lesson</u> <u>No.</u>	<u>Lesson Name&amp;</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	Literature : Flamingo	Flamingo : 4. The Rat Trap 5. Indigo Poem 3: Keeping	Students will be able to identify , analyze , interpret and describe the critical ideas , values and themes that	PPT Screen Sharing Explanation Experiential Learning Critical Communication and Collaboration	Students will be able to follow instructions and directions.	All the competenc ies will be assessed through subject enrichment activities	Students will be able to Critically analyze the prose and poetry. Appreciate the beauty , rhyme, style, genre of the poem and prose.

		Outet	annear in the		liko	
		Quiet	literary prose	Make	creativity	
			and noems	inferences	and	
		Writing		and	innovation	
	Writing	witting.		judgment.	critical	
	5	Invitations :		J	thinking	
		Formal and	The student is		communic	
			able to: (i)		ation	
		Informal	master the	Present	collaborati	
			Mechanics of	various	on	Students will be able
			writing; the use	interpretation	•	to apply the grammar
			of correct	s of the	Assignmen	rules as per need in
			punctuation	poem and	ts,	framing sentences and
			marks and	prose	Worksheet	ideas while writing
			capital letters; (ii)	creatively	s, Tests	using the apt formats.
			spell words	and childany.		
			correctly; (III)			
			white heatiy and			
			annronriate			
			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			
			imoginatively to			
			inaginatively to			
			lexiual			

			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-IV ELECTRO MAGNETIC INDUCTIO N & ALTERNAT ING CURRENTS Chapter:6 Chapter 7	Electromagnetic Induction Alternating current	Analyses and draws conclusions such as direction of induced current in the figure Explains process on scientific basis such as production of eddy currents, self and mutual induction. Recognises different processes used in Physics Related industrial and technological applications; such as use of superconducting magnets for running magnetically levitated superfast trains, Generator. Derives formulae and equations such as current voltage phase relation in ac circuit, resonant frequency in series LCR circuit, energy stored in	<ul> <li>6. To determine resistance of a galvanometer by half- deflection method and to find its figure of merit.</li> <li>ACTIVITIES SECTION</li> <li>B 1. To study refraction of light through glass slabs.</li> <li>EXPERIMENTS SECTION</li> <li>1. To find the value of v for different values of u in case of a concave mirror andtofindthefocallength.</li> <li>MONTHLY TEST -3</li> </ul>	Analyze and interpret graphs and draw conclusions such as phase relation between current and voltage in ac circuit, LC oscillations and conservation of energy. Realizes and appreciates the interface of Physics with other disciplines such as electromagnetic radiations in communication,	Statement of Faradays law and lenz's law Reasoning questions to find direction of induced current and emf, reactance and impedance of ac circuit Numerical and conceptual questions on induced emf, self and mutual induction, AC circuits, Resonance Derivation of expression for motional emf, self and mutual induction of a coil, displacement current. Derive phase relation between current and voltage in AC circuit Production	

			inductor			properties and uses of e m waves	
CHEMISTRY	UNIT– VI, Chapter-6	Haloalkanes & Haloarenes	Students will understand the following concepts- IUPAC nomenclature of haloalkanes and haloarenes, methods of preparation, physical and chemical properties, polyhalogen compounds and their uses EXPERIMENT- Salt Analysis (any five)	Problem solving Explanation Demonstration Experiential Learning Subject enrichment activities Resources= https://youtu.be/ztt0teV JtlY?si=r482U_2uD2w uucjE Notes link- https://docs.google.com /presentation/d/14fJY0 WCMIVyfD6cZ9TpsIR 7fsDn4i85M/edit?usp=s haring&ouid=10180039 4715389172696&rtpof= true&sd=true	*Writes IUPAC nomenclature and structures. *Writes chemical equations. (specially name reactions) *Explains test of distinction between two organic compounds. *Understands how to convert one organic compound into another. *Explains the reason of distinguishing characteristics of organic compounds.	<ol> <li>Practice of MCQs</li> <li>MCQs</li> <li>through Google form.</li> <li>Practice of Assertion/Rea</li> <li>son type questions.</li> <li>Practice of PBQs.</li> <li>Practice of IUPAC</li> <li>nomenclature</li> <li>S.</li> <li>Practice of name</li> <li>reactions and mechanisms</li> <li>involved.</li> <li>Practice of chemical tests</li> <li>to distinguish</li> <li>between two organic</li> <li>compounds.</li> <li>Practice of conversions</li> <li>in two steps.</li> </ol>	Students will -analyze the usefulness and harmful effects of polyhalogen compounds in daily life. - develop scientific temperament and inquisitiveness.
		Chapter- 7: Human Health and Diseases	Understand and classify the disease into congenital since birth (gene mutation.	To observe the permanent slides of disease causing organisms like Ascaris, Ent amoeba, Plasmodium, Round worm and write the	The students learnt about the life cycle of malarial parasite and the different stages of life cycle it	Draw the life cycle of malarial parasite showing the	To explore the critical thinking of the society that microbes are not

i								
			Disease, Types of disease: Congenital and acquired, common diseases(pneumonia, common cold, malaria, ascariasis), Immunity, Development of immunity, types of immunity, types of immunity, types of defense mechanism, external defense, internal defense – cellular and cytokine barrier, Addiction (tobacco, alcohol, drugs) Chapter-9: Microbes in Human Welfare in house hold, industrial, antibiotics, sewage treatment.	chromosomal aberrations, environmental factors first two are transmitted to children where as environmentally are not) or acquired (after birth communicable or non communicable) . communicable or non communicable, -infectious spread through pathogens and non- communicable non infectious (organ ic disease, deficiency disease, hypo or hyper secretion of hormones. Understand and express the benefits of bacteria in probiotics, antibiotics, industrial and sewage treatment.	symptoms of the disease.	completes in different host Students learnt to prevent themselves from different diseases by observing signs and symptoms.	stages at in different host.	always bane but act as boon in our daily life.
	MATHS	chapter 5	Continuity & Differentibi lity	to enable the students to understand 1) Continuity and differentiability. 2) Change in one variable when the other		Students learned about : 1) Continuity and differentiability of a function. 2) To differentiate trigonometric	Assessmen t will be done on the basis of decided Rubric	i nrough problems based on AOD, they will develop 1)Imagination 2)Systematic approach 3)To handle real life situation

					•		
Chapter -6	Application of derivatives	Mean value theorem and Rolle's theorem	variable changes (i.e. meaning of differentiation) 3)Differentiation of trigonometric function, logarithmic function, exponential function, inverse of trigonometric function, implicit functions, parametric form and higher order derivatives. To enable the students to understand 1)Through problems based Rolles Theorem and Mean value Theorem imagination skills are imbibed. 2)Derivatives are used in Real life	Problem solving Explanation Demonstration Experiential Learning Subject enrichment activities PPT, PDF Questionnaire	function, logarithmic function, exponential& parametric function, inverse of trigonometric function 3)Higher order derivatives. 4) Mean value theorem and Rolle 's Theorem. Through explanation of graph creative thinking will be imbibed.		
SCIENCE	UNIT- 1 (Computati onal Thinking and Programmi ng - II)	CSV Files Data structure	Key objectives include understanding Python's fundamentals, using data structures,	powerpoint slides, practical	solve problems, and develop applications using Python's syntax, data structures, and	File Handling Programs in : Text File	programming develops valuable life skills like problem-solving, logical thinking, and analytical

			writing functions, implementing object-oriented programming, and working with file		libraries, including object-oriented programming concepts and file handling.	Binary File CSV File	abilities
PHYSICAL EDUCATION	Unit 6	Test and Measurem ent in Sports	Students will be able to understand the Sai Khelo Fitness test. This is for different age groups. Each age group has its own testing exercises.	Explaining with examples and discussing it with children.	Students will be able to explain the concept of testing one's fitness at any age without any difficulty.	Assessmen t will be done by asking questions about the different tests that take part for different ages.	Will be able to judge the fitness level of a person.
	Unit 7	Physiology and Injuries in sports	Students will be able to understand the physiological factors determining Components of Physical Education. Effects of exercises on muscular system,	Explaining with examples and discussing it with children.	Students have understood the concept of physiological factors determining Components of Physical Education. Effects of exercises on muscular	Assessment will be done by asking questions about the different tests that take part for different ages.	

cardio-Respirat ory systems. Knowledge of sports injuries and types of fractures in our	system, cardio-Respirato ry systems.	
body.		

### **MONTH: SEPTEMBER**

Month & No. of working	<u>Subject</u>	<u>Lesson</u> <u>No.</u>	<u>Lesson Name&amp;</u> <u>topic</u>	<u>Learning</u> objective	<u>Pedagogy ( Activities and resources)</u>	<u>Learning</u> Outcome	<u>Assessment</u>	<u>Life Skills</u>
	ENGLISH	Flamingo	Flamingo: 6 Poets and Pancakes Poem 4: A Thing of Beauty 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. 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	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.

		reasonable		
		speed: (iv)		
		use		
		appropriate		
		appropriate		
		vocabulary;		
		(v) use correct		
		grammatical		
		items: (vi)		
		write		
		coherently in		
		more then one		
		paragrapn;		
		(vii) complete		
		accurately		
		and fluently		
		semi		
		controlled		
		compositions		
		like stones,		
		events,		
		processes etc;		
		(viii) write		
		description of		
		people places		
		and things		
		and record		
		anu responu		
		imaginatively		
		to textual		
		questions; (ix)		
		write		
		pragraphs.		
		letters.		
		(nersonal and		
		(personal and		
		simple,		
		narrative		
		pieces,		
		reports,		
		notices.		
		messages		
		diary entries		
		oto: (x) make		
		eic, (x) make		
		notes and		

		summarise; (xi) edit written				
		material (xii)				
ICS UNIT- VI: OPTICS Chapter-9 Chapter-10	Ray Optics and Optical Instruments Wave Optics	expand notes. Recognises the concepts of Physics related to various natural phenomena such as reflection, refraction, interference, diffraction and polarization of light; formation of rainbow. Derives formulae and equations such as mirror formula, lens formula, refraction at spherical surface and prism, magnifying power of microscope and telescope, fringe width in Young's double slit experiment and diffraction.	EXPERIMENTS SECTION 2. To find the focal length of a convex lens by plotting graphs between u and v or between 1/u and1/v. 3. To find focal length of a convex mirror by using a convex lens. 4. To find the focal length of a concave lens, using a convex lens.of a concave lens, using a convex lens. COMPLETION OF PROJECT WORK MONTHLY TEST-4	Analyses and interprets figures, and draws conclusion such as position of image in ray diagrams; fringe pattern due to diffraction at single slit. Handles tools and laboratory apparatus properly; measures physical quantities using appropriate apparatus, instruments, and devices: such as Traveling Microscope; concav eandconvexlens, pris m, glass slab. Plans and conducts investigations and experiments to arrive at and verify the facts, principles, phenomena, relationship between physical quantities such as Study the image formed by lens and mirror, determine refractive index of a liquid using a convex lens and a plane mirror Applies concepts of physics in daily life with reasoning	Derivation of Mirror formula Refraction at spherical surface Lens formula Prism formula Magnifying power of Microscope and telescope Condition for maxima and minima in Interference and diffraction Conceptual, graphical questions, Ray diagrams and numerical on above topics Practice Assertion Reasoning and content based Questions	

					while decision-making and solving		
					problems such as		
					use of polarized		
					glass in spectacles,		
					applicationsofoptica		
					lfibersfortransmissi		
					onofoptical Signals.		
CHEMISTRY	UNIT-VII	Alcohols, phenols &	Students will	Problem solving	Students will be	1.Practice of	Students will be able
		ethers	understand the	Explanation	able to -	MCQs.	to understand the
	Chapter7		following	Demonstration	*Write IUPAC	2.Practice of	-importance of
			concepts-	Experiential Learning	nomenclature and	Assertion/Rea	organic compounds in
				Subject enrichment	structures.	son type	our daily life.
			IUPAC	activities	*Write chemical	questions.	<ul> <li>develop scientific</li> </ul>
			nomenclature,	PPT, PDF	equations.	3.Practice of	temperament and
			methods of	Questionnaire	(specially name	PBQs.	inquisitiveness.
			preparation,,		reactions)	4.Practice of	
			physical and		*Explain test of	IUPAC	
			chemical		distinction between	nomenclature	
			properties,		two organic	S.	
			polyhalogen	<u>Resources-</u>	compounds.	5.Practice of	
			compounds and	<u>Notes link-</u>	*Understand how	name	
			their uses,	https://drive.google.com	to convert one	reactions and	
			Chemical tests	/file/d/1YuENBgej1scrP	organic compound	mechanisms	
			to distinguish	tPGUM8Njt_I8WqVpe	into another.	involved.	
			between	<u>um/view?usp=sharing</u>	*Explain the	6.Practice of	
			compounds,		reason of	chemical tests	
			organic		distinguishing	to distinguish	
			conversions		characteristics of	between two	
		<u>Experiment</u>			organic compounds	organic	
	PRACTICAL		Chromatograph		*perform the	compounds.	
			у,		experiments	7.Practice of	
			Preparation of		*learn how to	conversions	
			inorganic		handle the	in two steps.	
			compound and		apparatus.		
			organic				
			compound.				

BIOLOGY		Understand	To Prepare vinegar from	The students learnt	Project Work	Students will develop
	Chapter-10:	Basic concept	fruit peels by the process	the process of		scientific temperament
	Biotechnology	engineering	To determine the action of	The learners		Students will analyze
	Principles and Processos	Learn basic	salivary amylase in	understood how the		various methods of
	rinciples and riocesses	tools of rDNA	carbohydrates/starch at	technology is used		genetic engineering for
	Tools for recombinant	technology	different pH and	in the large scale		improving standard of
	DNA Technology Process	Describe	temperature.	production of		living Students will
	of Recombinant DNA	enzymes		anubiolics, enzymes		gain awareness
	technology	cloning vector		students learnt		developments in
		Understand		about the different		recombinant DNA
	Biotechnology and its	procedures, to		techniques which		technology that yielded
	Application Principles	transfer rDNA		could be applied to		numerous new useful
	and process of	Annly		The students learnt		healthcare and
	Biotechnology Genetic	procedures to		about the gene		agriculture.
	engineering	identify		therapy which		Ŭ
	Biotechnological	recombinants,		enabled the medical		
	application in Agriculture	Acquire		scientist to replace		
	Biotechnological	DNA		responsible for		
	Application in Medicines	sequencing,		hereditary disease.		
	Transgenic Animals &	Enumerate the				
	Ethical Issues	applications of				
	Chapter-11:	PCR. Understand				
	Biotechnology	techniques of				
	and its	isolating,				
	Application	purifying and				
		manipulating				
		methods of				
		gene				
		sequencing and				
		DNA				
		ingerprinting.				

	MATHS	Chanter 7	Indefinite	Students will		Students	Assessmen	
-		Chapter /	Integrals	understand		learned about ·	t will be	
			Definite	1)		1)integration	done on the	
			Integrals	integration		2)Different	basis of	
				2)Different		methods of	decided	
				methods of		integration	Rubrics	
				integration				Through problems
						By different		based on
				To enable		approaches they		integration, they
				the students		learn		will develop
				to		3)Manipulation		1)Manipulation(ass
				understand		4) Logical		umptio n)
				1) the		thinking		2) Logical thinking
				meaning of				3) Systematic
				Definite				approach
				integral and				
				properties of				
				definite				
				integrals.				
				2)To enable				
			A subjection of	the students	D 11 1 1			<b>-</b>
		Chanter 8	Application of	to demotemed	Problem solving			To enable the
			inregrais		Demonstration			students to
				Limit as a	Experiential Learning			develop 1)Critical
				sum.	Subject enrichment			
					activities			Visualize snapes
				To onoblo	PPT PDF			2) Accuracy for
				the students	Ouestionnaire			calculating area
				to find the				
				Area of				
				hounded				
				curve				
				Carto				

COMPU SCIENCE	TER Revision For half Yearly Exam	Revision For half Yearly Exam	Revision For half Yearly Exam	Revision For half Yearly Exam	Revision For half Yearly Exam	Revision For half Yearly Exam	Revision For half Yearly Exam
PHYSIC EDUCAT	AL Unit 8 ION	Biomechan ics and Sports	Students will be able to understand the Law of Motion and types of Levers and their application in sports activity. They also study Equilibrium and Friction in sports.	Explanation with examples Reading Chapter Cross Questioning	Students will understand the Law of Motion and can easily apply things that they have learned in playing games.	Assessmen t will be done in class by Cross questioning and checking the understandi ng level of students.	Students will be able to analyse and improve the game by applying things they have learned in class.

#### **MONTH: OCTOBER**

Month & No. of working days	<u>Subject</u>	<u>Lesson</u> <u>No.</u>	Lesson Name& topic	Learning objective	Pedagogy (Activities and resources)	<u>Learning</u> <u>Outcome</u>	Assessment	<u>Life Skills</u>
	ENGLISH	Flamingo Writing	Flaming o: 7. The Intervie w Poem 5: The Roadsid e Stand Vistas: On the	Students will be able to identify , analyze , interpret and describe the critical ideas , values and themes that appear in the literary prose and poems.	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	Students will be able to Critically analyze the prose and poetry. Appreciate the beauty , rhyme, style, genre of the poem and prose.

PHYSICS	UNIT-VII:	Face of It Writing: Debate	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) simple, narrative pieces, reports, notices, messages, diary entries etc; (x) make notes and summarise; (xi) edit written material (xii) expand notes. Recognises the		Present various interpretation s of the poem and prose creatively and critically.	thinking , communic ation , collaborati on Assignmen ts, Worksheet s, Tests 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.
	DUAL NATURE OF		concepts of Physics related to various	ACTIVITIES SECTION	appreciates the interface of Physics with other	and derivations on Finstein's	
	KADIATION		phenomena such as		i nysies with other	Emistern s	

AND MATTER Chapter-1	Dual Nature of Radiation	radioactivity; nuclear fusion and nuclear fission. Differentiates between; wave and particle nature of light;	B 2. To observe polarization of light using twoPolaroids.	disciplines such as, with Chemistry as various materials give rise to	equation DE Broglie's equation Distance of closest	
UNIT-VIII ATOMS A NUCLEI Chapter–1: Chapter–1:	Atoms Nuclei	half-life and average life; Nuclear fusion and nuclear fission;. Derives formulae and equations such as de Broglie wavelength; equations for nuclear fission and fusion, beta decay, mass defect.	3. To observe diffraction of light due to a thin slit. HALF YEARLY EXAMINATION	interesting properties in the presence or absence of electric field, making light sensitive cells using the applications of photoelectric effect; use of atomic and nuclear physics in medicine,	approach Radius and velocity of electron in H-atom Energy of electron in nth orbit Spectral line of H- atom Size of nucleus Binding energy Radioactivity Practice MCQ, Assertion Reasoning graphical and content based questions on above topics	

CHEMISTRV		Aldehyda	Students will	Problem solving	Studente will be	1 Practice of	Students will be able
		Katana	understand the	Exploration	shile to	MCOs	to understand the
		Ketone	following concents	Demonstration	Writes UDAC	through	importance of organic
	Chapter-8	and	ionowing concepts-	Experiential Learning	* WITLES IUPAC	uniougn Coogle form	apportance of organic
		Carboxylic	II IDAC nomenaleture	Subject enrichment	atructures	2 Prostice of	daily life
		acid	normenciature,	Subject enficiment	structures.	2. Plactice of	datty file.
			methods of		* writes chemical	Assertion/Rea	-develop scientific
			preparation,, physical	PP1, PDF	equations.	son type	
			and chemical	Questionnaire	(specially name	questions.	inquisitiveriess.
			properties, Chemical		reactions)	5. Practice of	
			tests to distinguish		*Explains test of	PBQS.	
			between compounds,		distinction between	4. Practice of	
			organic conversions,		two organic	IUPAC	
			uses of organic	D	compounds.	nomenciature	
			compounds.	<u>Kesources-</u>	*Understands how	5. Practice of	
				<u>Notes link-</u>	to convert one	name	
				nttps://drive.google.co	organic compound	reactions and	
				<u>m/file/d/1JGtHlyyBR41</u>	into another.	mechanisms	
				AI9VEVGJIg63JAa5G-	*Explains the	Involved.	
				HDe/view?usp=sharin	reason of	6. Practice of	
				g	distinguishing	chemical tests	
					characteristics of	to distinguish	
		Experimen	Salt Analysis		organic compounds	between two	
	Practical-	t	(any live)			organic	
						compounds.	
						conversions	
						in two steps.	
BIOLOGY			Students will be	Problem solving	The students learnt	To determine	To emphasized on
	Chapter-13:	Organisms and	familiarized with	Explanation	how adaptation	population	like observational
	Organisms and	environment:	various hierarchial	Demonstration	allows organism to	density and	experimental critical
	Populations	Habitat and	likeOrganism	Experiential Learning Subject enrichment	reproduce in natural	augurate method	thinking and problem
		niche, population	incorganisiii,	Subject entremnent	reproduce in natural	quadrate memod.	solving skill

		and ecological adaptations;inter actions - mutualism, competition, predation, parasitism; population attributes - growth, birth rate and death rate, age distribution.	Population, Community, Biosphere Ecosystem. Students will learn about plant adaptation to different medium like light, salinity etc. To enhance their ability to learn and understand biotic community. To explore their critical thinking by studying population growth and growth models To make them share their opinion in population interactions Appreciate the importance of interspecific interactions in biotic community .	activities PPT, PDF Questionnaire	environment The students have learnt to explain how single species population grow and regulate. The learners can distinguish between density dependent and density independent birth and death rates. They will be well versed with the analysis of population data using statistics, graphs, life tables, survivor curves. They learnt how community change in both space(biome and gradient)and time(succession) Students will be	Adaptation of xerophytic and aquatic plants and animals.	determining and inculcating values like Awareness, Responsibility. They will describe and practice scientific methods of observation, experimentation by finding population frequency and density. They will be able to evaluate that increase or decrease in population attribute is due to birth and death rates.
	Chapter-14 : Ecosystem	Ecosystems: Patterns, components;	Understand Basic concept of Ecosystem Describe various biotic components in	Problem solving Explanation Demonstration Experiential Learning	Understand how interaction among species such as competition predation, parasitism and mutualism organize a community. Students will appreciate the roles of organisms in different food	Analysis of Soil Texture,	Analyse the roles of
		productivity and decomposition; energy flow; pyramids of	ecosystem like producers, consumers decomposers and certain abiotic	Subject enrichment activities PPT, PDF Questionnaire	chains and food web. Students will be able to assess survival needs and	pH, Water holding capacity, Moisture content	interconnected webs, population, communities and ecosystem. Interpret

		number, biomass, energy; nutrient cycles (carbon and phosphorou s); ecological succession; ecological services - carbon fixation, pollination, seed dispersal, oxygen release (in	components Understand different types of food chains, grazing and detritus food chain Acquire knowledge of different types of ecological pyramids Understand ten percent law in energy flow models Evaluate the mechanism of decomposition in ecosystem Explore different biogeochemical cycles.		interactions between organisms and the environment. Students will analyze various types of ecological pyramids like number and biomass and relate to real life situations Students will develop scientific temperament and inquisitiveness by studying ten percent law in energy flow in ecosystem Students will get awareness regarding different biogeochemical cycles and would explore how to maintain it in sustainable form.	Illustrations of ecological pyramids of number, biomass and energy by citing different examples.	energy flow among population through food web and ecological pyramids .
MATHS	Chapter -9	Different ial equations	To enable the students to find 1) the function when differential equations is given. 2)Degree and order of differential equations 3) solution of various forms of differential equations 4)general and particular solution.	Problem solving Explanation Demonstration Experiential Learning Subject enrichment activities PPT, PDF Questionnaire	Students learned about : 1) the function when differential equations is given. 2)Degree and order of differential equations 3) solution of various forms ofdifferential equations 4)general and particular solution. 5)	worksheets ,pyqs	To enable the students to understand 1)Different types solution 2)Different approaches for solution to problems

	Chapter 10	Vectors	To enable the students to understand the concept of 1)vectors and its usage 2)Types of vectors their properties 3) Representation of vectors 4) dot and cross product of vectors 5)area of triangle and quadrilateral. 6)Scalar triple product	Problem solving Explanation Demonstration Experiential Learning Subject enrichment activities PPT, PDF Questionnaire	Different types solution 6)Different approaches for solution to problems Students learned about : 1)vectors and its usage 2)Types of vectors their properties 3) Representation of vectors 4) dot and cross product of vectors 5)area of triangle and quadrilateral. 6)Scalar triple product 7) to visualize vectors 8)understanding different types of quantities and its importance		
SCIENCE	Unit II: Computer Networks Evolution of networking	Intrene t,APRA NET, LAN <m AN,WA N</m 	inderstanding the historical milestones, key innovations, and the underlying principles that have shaped network	Discussion method	allows individuals to understand how networks have grown from basic interconnected systems to the	Practical of Computer Network and Network	aigital literacy, critical thinking, problem-solving, and adaptability.

					interconnected global network we know today	Architectur e	
PHYSICAL EDUCATION	Unit 9	Psycho logy and Sports	Students will be able to understand the concept of personality and motivation in sports and in human life.	Explaining with examples Reading	Students have understood about the personality of human beings. Aggression in sports and Psychological attributes in sports.	Assessmen t is done with class discussion.	Students will be able to differentiate in different personalities and importance of motivation in sports.

#### **MONTH: NOVEMBER**

<u>Month &amp; No.</u> of working <u>days</u>	<u>Subject</u>	<u>Lesson</u> No.	Lesson Name& topic	Learning objective	Pedagogy ( Activities and resources)	<u>Learning</u> Outcome	<u>Assessment</u>	<u>Life Skills</u>
	ENGLISH	Flamingo Vistas Writing	Flamingo: 8. Going Places Poem 6: Aunt Jennifer's Tigers Vistas: 8. Memorie s of Childhoo d Writing: Speech	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	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 competenci es will be assessed through subject enrichment activities like creativity and innovation, critical thinking, communicat ion, collaboratio n Assignment s, 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

			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)				the apt formats.
PHYSICS	UNIT- IX: ELECTRONI C DEVICES Chapter 14	Semiconduct or Electronics:	Differentiates between conductors, insulators and semiconductors	EXPERIMENTS SECTION B 5. To draw the I-V characteristic curve for a p- n junction in forward bias and reverse bias. 6. To draw the characteristic curve of a Zener diode and to determine its reverse breaks down voltage.	. Plans and conducts investigations and experiments to arrive at and verify the facts, principles, phenomena, relationship between physical quantities such as designing a voltage regulator circuit using zener diode, draw I-V characteristics curves of a p-n	Practice Assertion reasoning, and MCQ questions. Questions on energy band diag., junction diode & its use as rectifier, Special purpose diode -LED Zener diode, photo diode, solar cell	

					junction diode		
CHEMISTRY	UNIT-IX CHAPTER-9 UNIT-X CHAPTER-10	Amines Biomolecules	Students will understand the following concepts- IUPAC nomenclature, methods of preparation,, physical and chemical properties of compounds and their uses, Chemical tests to distinguish between compounds, organic	Problem solving Explanation Demonstration Experiential Learning Subject enrichment activities PPT, PDF Questionnaire	junction diode Students will be able to - *Writes IUPAC nomenclature and structures. *Writes chemical equations. (specially name reactions) *Explains test of distinction between two organic compounds.	<ol> <li>Practice of MCQs through Google form.</li> <li>Practice of Assertion/Reas on type questions.</li> <li>Practice of PBQs.</li> <li>Practice of IUPAC nomenclatures</li> </ol>	Students will be able to understand the importance of organic compounds in our daily life. -develop scientific temperament and inquisitiveness. *Appreciate & realize the interface of chemistry with biology.
	PRACTICAL	Investigator y project	conversions Carbohydrates- Types, structures, properties, uses Proteins- Composition, structure, types, importance Vitamins- types and deficiency diseases Nucleic acids- structure,types ,composition	Resources- Notes Link- Amines- https://drive.google.co m/file/d/1ynCyZZ316tP dC5Vbr4GLPckV3hjW sk1R/view?usp=sharing Biomolecules- https://docs.google.com/ presentation/d/1SXyvD fmKVNDljC8X_OwgG OeorFAxw0tZ/edit?usp =sharing&ouid=101800 394715389172696&rtpo f=true&sd=true	*Understands how to convert one organic compound into another. 8. Practice of classification, comparisons, structures and biological functions of biomolecules. *Explains the reason of distinguishing characteristics of organic compounds *Draws structure of various biomolecules. *Prepares flow charts to classify biomolecules like carbohydrates, amino acids etc.	5. Practice of name reactions and mechanisms involved. 6. Practice of chemical tests to distinguish between two organic compounds. 7.Practice of conversions in two steps.	*Exhibit creativity in designing eco friendly models.

BIOLOGY	CH-15	Concept of	To evaluate and	Problem solving	Justify the	.To study the	Develop
	Biodiversity	biodiversity:	characterize different	Explanation	importance of	suspended	Creativity,
	and its	patterns of	levels of Biodiversity	Demonstration	conserving	particulate	Decision Making
	Conservation	biodiversity.	To analyse critically	Experiential Learning	populations that	matter in air at	and Logical
		importance	the factors contributing	Subject enrichment	have been	two different	thinking how and
		of	threat to extinction of	activities	subdivided due to	sites. To study	where to
		01 biodiversity	biodiversity To	PPT, PDF	habitat	pH, clarity and	implement is only
		biodiversity,	enumerate different	Questionnaire	fragmentation.	presence of	use for betterment
		IOSS OF	methods of		Recognize that the	living organism	of society and
		biodiversity;	conservation of		restoration of	in water.	environment
		biodiversity	biodiversity, in situand		habitats is often		
		conservation	ex situ conservation.		involved in		
		;hotspots,	Students will develop		landscape		
		endangered	scientific temperament		preservation.		
		organisms,	and inquisitiveness.				
		extinction,	Students will analyze				
		Red Data	various methods of				
		Book,	conservation of				
		biosphere	biodiversity Students				
		reserves,	will get awareness				
		national	regarding ICUN red list				
		parks.	categories Value the			F 1	
		sanctuaries	ethical concerns			Expand	D 1
		and Ramsar	regarding conservation			awareness of	Develop
		sites	of biodiversity.	Desklaus salaina	The state of the second st	self in a global	Creativity,
		5105.		Froblem solving	The students will be	society and	Decision Making
				Demonstration	able to Define and	effectively	thinking how and
		A	Illustrating the	Experiential Learning	explain important	engage uiverse	where to
	CH- 16	Alr	tachniques of in situ	Subject enrichment	of different	perspectives,	implement is only
	Environmental	pollution	and ex situ	activities	nollution	values, allu	use for betterment
	Issues	and its	conservation The		Understand the	ranging from	of society and
		control;	learns will learn to	Questionnaire	current evidence for	local to global	environment
		water	describe how	Questionnanc	global warming	in dealing with	cirvitoinnent
		pollution	biodiversity is		Understand the	environmental	
		and its	measured and predict		current warming in	and social	
		control;	the consequences of		relation to climate	issues	
		agrochemica	continued species loss		changes throughout	155465.	
		ls and their	Understand Basic		the Earth's history		
		effects; solid	cause of pollution		Explain factors		
		waste	Learn basic types of		forcing climate		
		management	pollution, like air.		change, and the		
		: radioactive	water, soil, radioactive		extent of		
		waste	and noise pollution.		anthropogenic		
		management	1		influence Use		
		· greenhouse			scientific methods,		
		effect and			quantitative and		
		effect and			1		

		climate change; ozone layer			symbolic reasoning, and explore complex environmental issues and analyze the problems .		
MATHS (	CHAPTER 11	Three dimension al geometry	To enable the students to understand the concept of 1)Straight line in space 2) Equation of line in Cartesian and vector form 3) Angle between two lines 4)shortest distance between two lines, plane and shortest distance in 3 Dimensional geometry 5)Foot of perpendicular from a point to the line 6) Equation of planes incartesian and vector form 7)Angle between two planes 8)shortest distance between a point and a plane . 9)intersection point of a line and plane	Problem solving Explanation Demonstration Experiential Learning Subject enrichment activities PPT, PDF Questionnaire	Stuents will be able to learn Direction cosines/ratios of a line joining two points. Cartesian and vector equation of a line, coplanar and skew lines, shortest distance between two lines. Cartesian and vector equation of a plane. Angle between (i) two lines, (ii) two planes, (iii) a line and a plane. Distance of a point from a plane	worksheets pyqs	1. Physics use of vectors . 2. Critical thinking, problem solving, and spatial awareness.
	Chapter 12	Linear program ming	• formulat e_a		• form ulate		1. mathematisation (ability to think logically,

		sim	plifie	aive	handle
		d		n	abstractions)
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		on	of a	ified	knowledge of
		suit	able	desc	procedures
		rea		rintio	(formal and
		d d		n of	mechanical). 2.
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				a	vocabulary. 3.
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		pro		real-	of concepts in
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		sta	ndard	em	understanding of
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		al fe	orms	r	between them. 4.
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		gra	ohica	amm	processes
		1		ing	involved in
		rep	rese	mod	mathematical
		nta	ion	el in	reasoning 5.
		of a		gene	developing the
		two	-dim	ral,	processes of
		ens	ional	stan	dealing with
		line	ar	dard	greater
		pro	gram	and	abstractions,
		, min	g l	cano	moving from
		mo	del	nical	particular to
		aive	en in	form	general to
		aer	eral.	S	particular. 6.
		sta	ndard	<ul> <li>sketc</li> </ul>	movement with
		or		ha	facility from one
		can	onic	oran	representation to
		al f	orm	hical	another of a
			sifv	renre	concept or
				sont	process. 7.
		a tuo	dim	otion	solving and
		lwo	-01111	auon	posing problems.

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linear	two-	how and why
program	dime	mathematics is
ming	nsio	all around us by
model	nal	establishing
by the	linea	linkages with
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its	progr	experiences and
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COMPUTER SCIENCE	Unit II: Computer Networks Evolution of networking	Networ king devices, protocol s	understanding the historical milestones, key innovations, and the underlying principles that have shaped network technologies	Discussion method Powerpoint slides	allows individuals to understand how networks have grown from basic interconnected systems to the complex, interconnected global network we know today	Practical of Computer Network and Network Architecture	digital literacy, critical thinking, problem-solving, and adaptability.
PHYSICAL EDUCATION	Unit 10	Training in Sports	Students will be able to understand the concept of training in sports for different games. Different types of training for example - circuit training, Interval training, continuous training and weight training etc.	Explanation with examples Reading chapter Detailed description of topics.	Students have learnt about the training methods to improve performances	Assessment have to be done while playing games.	Students will be able to play games according to skills.

#### **MONTH: DECEMBER**

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

ENGLISHFull Syllabus RevisionLiterature Writing Reading (Full Syllabus Revision)Students will be able to identify, analyze, interpret and describe the ortical ideas, values and heres that appear in the literary prose and poems.PT Screen Sharing Experiential Learning Communication and CollaborationAll the competence ies will be assessed and directions.Students will to Critical ya the prose and A Appreciate the of the poem and prose.Make inferences and poems.Present values and the mest that adpear in the literary prose and poems.Present values and prose.All the competence ies will be and and innovation, critical interpretation s of the prose of the poem and proseStudents will be assessed and of the poem and prose.Withing the prose and poems.The student is able to: (i) master the Mechanics of writing; the use punctuation marks and correctly; (iii) spell words correctly; (iii)Present various interpretation s of the prose creatively and critically.All the competence is subject envirtical the prose and prose.Students will to critical the prose and prose.Full spell words correctly; (iii)Present various interpretation prose creatively and critical thinking, correctly; (iii) spell words correctly; (iii)Present various interpretation and critically.All the competence is subject and and and to Critical correctly; warious and ortically.Students will to to Critical correctly to Critical to Cr
legibly with reasonable speed; (iv) use appropriate vocabulary; (v) use correct grammatical items; (vi) write coherently in more than one paragraph; (vii)

				stories, events,				
				processes etc; (viii) write				
				description of				
				people, places				
				and things and				
				respond				
				imaginatively to				
				textual				
				write pragraphs				
				letters, (personal				
				and official)				
				simple, narrative				
				pieces, reports,				
				notices,				
				messages, diary				
				make notes and				
				summarise: (xi)				
				edit written				
				material (xii)				
				expand notes.				
1	PHYSICS	I Pre Board E	kamination Practice Con	ntent based questions A	Assessment reasoning question	ons Derivations, Staten	nent of laws and	
		Diagrams Tin	e bound practice of solv	ving Question papers				
	CHEMISTRY	Revision of						
		full						
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	BIOLOGY							

M	IATHS	chapter 13	Probability	Multiplication theorem on probability. Conditional probability, independent events, total probability, Baye's theorem. Random variable and its probability distribution, mean and variance of haphazard variable. Repeated independent (Bernoulli) trials and Binomial distribution	Problem solving Explanation Demonstration Experiential Learning Subject enrichment activities PPT, PDF Questionnaire	students will be able to learn Multiplication theorem on probability. Conditional probability, independent events, total probability, Baye's theorem. Random variable and its probability distribution, mean and variance of haphazard variable. Repeated independent (Bernoulli) trials and Binomial distribution	unit tests, worksheets , pyqs	Understanding and applying probability is a valuable life skill that enhances decision-makin g, risk assessment, and problem-solvin g in various situations. Key life skills related to probability include critical thinking, communication , problem-solvin g, and understanding risk and chance.
SC	OMPUTER IENCE	Revision · Tests · Project Work Practical	<ul> <li>Revision</li> <li>Tests</li> <li>Project Work</li> <li>Practical File</li> </ul>	<ul> <li>Revision</li> <li>Tests</li> <li>Project Work</li> <li>Practical File</li> </ul>	<ul> <li>Revision</li> <li>Tests</li> <li>Project Work</li> <li>Practical File</li> </ul>	<ul> <li>Revision</li> <li>Tests</li> <li>Project Work</li> <li>Practical File</li> </ul>	<ul> <li>Revision</li> <li>Tests</li> <li>Project</li> <li>Work</li> <li>Practical</li> <li>File</li> </ul>	<ul> <li>Revision</li> <li>Tests</li> <li>Project Work</li> <li>Practical File</li> </ul>

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.
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### **MONTH: JANUARY**

Month & No.	<u>Subject</u>	Lesson	Lesson Name&	<b>Learning objective</b>	Pedagogy (Activities and	Learning	Assessment	Life Skills
of working days		<u>No.</u>	<u>topic</u>		<u>resources)</u>	Outcome		
	ENGLISH	Full Syllabus Revision	Literature Writing Reading (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	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.

			vocabulary: (v)			
			use correct			
			grammatical			
			items; (vi) write			
			coherently in			
			more than one			
			paragraph <sup>.</sup> (vii)			
			complete			
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			fluontly and			
			compositions like			
			stories, events,			
			processes etc;			
			(viii) write			
			description of			
			people, places			
			and things and			
			respond			
			imaginatively to			
			textual			
			questions: (iv)			
			write pragraphs			
			white pragraphs,			
			and official)			
			simple, narrative			
			pieces, reports,			
			notices,			
			messages, diary			
			entries etc; (x)			
			make notes and			
			summarise; (xi)			
			edit written			
			material (xii)			
			expand notes.			
PHYSICS	II Pre Board F	xamination Preparation	for Practical Examinat	ion		
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CHEMISTRY	2nd					
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	n and preparation for Practical examinatio n						
BIOLOGY							
MATHS	II Pre Board Examin ation Prepara tion			Problem solving Explanation Demonstration Experiential Learning Subject enrichment activities PPT, PDF Questionnaire			
COMPUTER SCIENCE	Full Syllab us Revisi on	Full Syllabus Revision	Full Syllabus Revision	Full Syllabus Revision	Full Syllabus Revision	Full Syllabus Revision	Full Syllabus Revision
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.

## **MONTH: FEBRUARY**

Month & No.	<u>Subject</u>	Lesson	<u>Lesson Name&amp;</u>	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	Litoratura		PPT			
	Syllabus		Students will be	Screen Sharing	Students will	All the	Students will be able
	Revision	Writing	able to identify ,	Explanation	be able to	competenc	to Critically analyze
		Reading	analyze ,	Experiential Learning	follow	ies will be	the prose and poetry.
			interpret and	Critical	instructions	assessed	Appreciate the beauty
		run	describe the	Communication and	and	through	, rhyme, style, genre
		Syllabus	critical ideas,	Collaboration	directions.	SUDJECT	of the poem and
		Revision)	values and			enrichment	prose.
			inemes inal		Make	liko	
			literary prose		inferences	creativity	
			and poems		and	and	
					judgment.	innovation,	
						critical	
			The student is			thinking ,	
			able to: (i)		Present	communic	
			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	Assignmen	rules as per need in
			punctuation		prose	ts,	ideas while writing
			marks and		creatively	Worksheet	using the apt formats
			capital letters; (ii)		and critically.	s, Tests	using the upt formats.
			spell words				
			correctly; (III)				
			legibly with				
			reasonable				
			speed; (iv) use				
			appropriate				
			vocabulary; (v)				
			use correct				
			grammatical				
			items; (vi) write				
			conerently in				
			nore than one paragraph: (vii)				
			complete				
			accurately and				
			fluently semi				
			controlled				
			compositions like				
			stories, events,				

PHYSICS	AISSCE Prac	tical Examination III Press	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. e Board Examination		
CHEMISTRY	Practical examinatio n and III pre board examinatio n				
BIOLOGY					

матня	<b>c</b>		Problem solving		
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	syllabus	a Core	Demonstration		
			Experiential Learning		
		Concepts:	Subject enrichment		
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	vectors , their operati ons, and applicat ions in 3D geomet ry.					
COMPUTER SCIENCE						
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.

#### **MONTH: MARCH**

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

PHYSICS	Board Examin				
CHEMISTRY	Board examinatio n				
BIOLOGY					
MATHS		Board examination			
COMPUTER SCIENCE					
PHYSICAL EDUCATION		Board Exam			