## INFANT JESUS CONVENT SCHOOL ANNUAL PLAN SCIENCE CLASS: X (2024-25)

MONTH/NO OF DAYS	TOPIC: SUB TOPIC	OBJECTIVES	AIDS/ACTIVITIES	MULTIPLE INTELLIGENC E SKILLS	LEARNING OUTCOME
	CHEMICAL	Learners will be able	<b>KNOWLEDGE:</b>		Learners will be
	SUBSTANCES-	to:	• List the chemical		able to: -
	NATURE AND	• Compare the	changes in a		Distinguish
	BEHAVIOUR	characteristics of	daily life		between
		initial & final	situation.		physical and
	TOPIC:	substances to check	Cartoon making		chemical
	Chapter 1: Chemical	whether the change	on concept of	Naturalist	change.
	reactions and	is physical or	ohms law	Intelligence	• Write chemical
	equations	chemical.	Create an	Logical-	equation.
		Use chemical	interactive	Mathematical	• Recall the
	SUB-TOPICS	symbols & chemical	accordion	Intelligence	symbols of
	Chemical	formulae correctly	foldable	Interpersonal	elements
	equations	to acquire the skill	responding to	Intelligence	Write formulae
	• Types of chemical reactions	of writing chemical equations.	the purposes	Visual-Spatial	and balance
	Combination	<ul> <li>Categorize the given</li> </ul>	(functions) and parts of each	Intelligence.	chemical
	• Combination reactions	• Categorize the given reactions	system.	Existential	<ul><li>equations.</li><li>Classify</li></ul>
	Decomposition	as(combination)	Recall various	Intelligence	Classify     different types
APRIL	reaction	based on the	modes of	Linguistic	of chemical
No of Days: 18	<ul> <li>Displacement</li> </ul>	reactants &	nutrition in	Intelligence	reactions
NO 01 Days. 10	reaction	products of a	plants and		Understand and
	Double	chemical reaction.	animals.		explain the
	displacement				concept of
	reaction	• Categorize the given	SKILL:		charge and
		reactions	Diagram making		electric current.
	EFFECTS OF	as(decomposition)	Analyzing		• Understand and
	CURRENT	based on the	Scientific skill		Calculate
		reactants &	Problem solving		potential
	TOPIC:				difference

Chapter 11:	products of a	Creative thinking	between two
Electricity	chemical reaction.	Critical thinking	points.
	• Classify the given	0	Identify and list
SUB-TOPICS	reaction as	APPLICATION:	different types
Electric Current	displacement or	LAB ACTIVITY:	of electrical
and Circuit	double	Classifying and	components
• Electric potential	displacement based	identifying the	Understand and
and Potential	on the type of	types of	explain the
difference	reactants used &	reactions.	concept of ohms
Circuit diagram	products formed.	Draw electric	law, resistance
• Ohm's law	• Evaluate the charge	circuit using	and resistivity,
Factors on which	flowing through a	electrical	Understand and
the resistance of a	conductor in a	symbols.	evaluate the
conductor	given time, to	• Studying the	numerical value
depends.	calculate current	dependence of	of, resistance.
Resistance of a	flowing through it.	potential	Plot a graph
system of	Determine work	difference (V)	between voltage
resistors.	done in moving a	across a resistor	and current
Resistors in Series	charge across two	on the current (I)	Understand and
Resistors in	points, to calculate	passing through	evaluate the
Parallel	potential difference	it and determine	equivalent
	between two points.	its resistance.	resistance in
TOPIC	• Identify the	Also plotting a	different
Chapter 5: Life	electrical	graph between V	combinations.
processes	components and their functions.	and I.	• Understands
		• Determination of	the importance
SUB-TOPICS	Understand Ohm's     Law and calculate	the equivalent	of life processes.
. What are life	resistance.	resistance of two	• Describes the
What are life		resistors when	modes of
processes?	Define resistivity     and classify	connected in	nutrition.
Nutrition	and classify substances as	series and parallel.	• Explain the
Autotrophic nutrition	conductors, alloys	<ul><li>Prepare a</li></ul>	definition of
Heterotrophic	and Insulators.	• Prepare a temporary	digestion. <ul> <li>Illustrate the</li> </ul>
nutrition	<ul> <li>Determine the</li> </ul>	mount of leaf.	
Nutrition in	resultant resistance	mount of ical.	meaning & function of
amoeba	in a series and a		various
aniocoa	in a series and a		Various

Nutrition in	parallel	Diagrams of	enzymes involve
human beings	combination.	Human Digestive	in digestion
	• Define life	system.	Arrange
	processes.		sequentially
	• Explain modes of	UNDERSTANDING:	all the steps
	nutrition	Observe the	of digestion
	• Explain the process	changes to	of food in
	of conversion of	determine a	humans.
	CO2 & H2O into	chemical	
	carbohydrates	Compare and	
	• Understand step	classify different	
	wise nutrition in	types of reactions	
	heterotrophs.	• Calculate the	
		charge flowing	
		through a	
		conductor in a	
		given time, in order	
		to calculate current	
		flowing through it	
		and potential	
		difference.	
		Solve numerical on	
		ohms law and	
		combination of	
		resistors.	
		Explains processes	
		and phenomena of	
		nutrition	
		Prepare a	
		temporary mount of	
		leaf.	
		• Explain the various	
		ways of nutrition in	
		plants and animals	

	TOPIC	Learners will be able	KNOWLEDGE:	Naturalist	Learners will be
	Chapter 1: Chemical	to:	Identify the reaction	Intelligence	able to: -
	reactions and		as oxidation or		
	equations	• Predict the reaction	reduction and	Logical-	• Balance the
		as Oxidation or	balance equations.	Mathematical	chemical
	SUB-TOPICS	Reduction based on	• Observe that heat is	Intelligence	reactions
	Oxidation and	the addition /	produced due to flow		Classify the
	Reduction	removal of oxygen /	of current.	Interpersonal	reactions as
	reaction	hydrogen.	• Unify the concept of	Intelligence	oxidation or
	Balancing of	Apply Law of	glucose catabolism		reduction.
	equation	conservation of		Visual-Spatial	• Apply
	Corrosion	mass in order to	SKILL:	Intelligence.	knowledge of
MAY	Rancidity	balance chemical	Diagram making	Existential	oxidation in
No of Days: 18		equations.	Analyzing	Intelligence	daily life.
110 01 Days, 10	TOPIC:	• Observe colour,	Scientific skill	Intemgence	<ul> <li>Explain and</li> </ul>
	Chapter 11:	taste and smell	Problem solving	Linguistic	calculate the
	Electricity	change in articles over time in order to	Creative thinking	Intelligence	heating effect of
	SUB-TOPICS	outline the effects of		mitemgenee	electric current.
		corrosion and	APPLICATION:		Evaluate the
	Heating effect of     electric current	rancidity in our	Activity of Balancing		consumption of
	Electric power	surroundings.	of equations		electric energy.
	• Electric power	Explain and	Discover     applications of		• Interpret the
		calculate the	applications of heating effect of		significance of
	TOPIC	heating effect of	electric current like		different
	Chapter 5: Life	electric current, in	fuse, heaters.		pathways of
	processes	order to learn	Experimentally		break down of
	proceeded	working of	show that carbon		glucose in
	SUB-TOPICS	appliances.	dioxide is given out		various
	<ul> <li>Respiration</li> </ul>	• Calculate power, in	during respiration.		organisms.
	<ul> <li>Aerobic and</li> </ul>	order to represent	Diagrams of human		• Explain the
	anaerobic	electric	Respiratory System.		concept of
	respiration	consumption in	UNDERSTANDING:		glucose
	• Human	domestic circuits.	• Use chemical		catabolism in
	respiratory system	• Outline and explain	symbols &		humans
		the ways of	chemical formulae		
		breakdown of	correctly.		

		glucose by various pathways.	<ul> <li>Infer that appliances of higher power consume more energy.</li> <li>Explain and locate the various parts of human respiratory system.</li> </ul>		• Draw a well labelled diagram of human respiratory system.
		REVISIO	DN: PT-1		
		CONDUCTION	1 OF PT - 1		
		REMEDIAL	CLASSES		
	CHEMICAL SUBSTANCES-	Learners will be able to: -	KNOWLEDGE:	Naturalist Intelligence	Learners will be able to: -
JULY No of Days: 27	<ul> <li>NATURE AND BEHAVIOUR</li> <li>TOPIC: Chapter 2: Acid and bases</li> <li>SUB-TOPICS</li> <li>Understanding the chemical properties of acids and bases.</li> <li>What do all acids and all bases have in common?</li> <li>How strong are acid or base solutions?</li> <li>Importance of pH in Everyday Life</li> <li>More about salts</li> </ul>	<ul> <li>Observe the action of given substances with various indicators, to categorize them as acids or bases.</li> <li>Detect the formation of hydrogen gas when a metal reacts with an acid or a base.</li> <li>Detect the formation of carbon dioxide when a metal carbonate/ bicarbonate reacts with acid.</li> <li>Analyse the reaction taking place</li> </ul>	<ul> <li>To understand the properties of acids bases and salts.</li> <li>Cross word puzzle</li> <li>Components of transport system in human beings.</li> <li>SKILL:         <ul> <li>Diagram making</li> <li>Analyzing</li> <li>Scientific skill</li> <li>Problem solving</li> <li>Creative thinking</li> </ul> </li> <li>APPLICATION: LAB ACTIVITY</li> <li>A. Finding the pH of the following samples by using pH</li> </ul>	Logical- Mathematical Intelligence Interpersonal Intelligence Visual-Spatial Intelligence. Existential Intelligence Linguistic Intelligence	<ul> <li>Differentiates materials / objects / organisms / phenomena / processes, based on, properties / characteristics</li> <li>Plans and conducts investigations / experiments to arrive at and verify the facts.</li> <li>Relates processes and phenomena with causes /</li> </ul>

<ul> <li>TOPIC: Chapter 12: Magnetic effects of current</li> <li>SUB-TOPICS</li> <li>Magnetic field and field lines</li> <li>Magnetic Field due to a straight current carrying conductor.</li> <li>Right hand thumb rule.</li> <li>Magnetic Field lines due to current through a circular loop</li> <li>Magnetic Field lines due to current in a circular loop.</li> </ul>	<ul> <li>Identify the positive and negative radicals present in a salt, in order to predict a salt's family and pH range.</li> <li>Outline the process of formation of sodium hydroxide.</li> <li>List the properties &amp; explain the preparation of some</li> </ul>	<ul> <li>paper / universal indicator: <ul> <li>(i) Dilute</li> <li>Hydrochloric</li> <li>Acid</li> <li>(ii) Dilute NaOH</li> <li>solution</li> <li>(iii) Dilute Ethanoic</li> <li>Acid</li> <li>(iv) Lemon juice</li> <li>(v) Water</li> <li>(vi) Dilute Hydrogen</li> <li>Carbonate</li> <li>solution</li> </ul> </li> <li>B. Studying the <ul> <li>properties of acids</li> <li>and bases (HCl &amp; NaOH) on</li> <li>the basis of their</li> <li>reaction with: <ul> <li>(a) Litmus solution</li> <li>b) Zinc metal</li> <li>c) Solid sodium</li> <li>carbonate</li> </ul> </li> <li>To sketch the <ul> <li>magnetic field lines</li> <li>around the current</li> <li>carrying conductors.</li> </ul> </li> <li>Display the <ul> <li>magnetic field</li> <li>pattern) (Use Paper</li> <li>quilling or threads)</li> <li>around.</li> </ul> </li> </ul></li></ul>	<ul> <li>effects, their functions</li> <li>Explains processes and phenomena</li> <li>Analyses data in order to interpret the difference between them.</li> <li>Recall magnets and list their important properties</li> <li>Conceptualize magnetic field lines and list their properties.</li> <li>Interpret construction of Solenoid &amp; electro-magnet and their uses.</li> <li>Comprehend and apply right hand thumb rule to find the direction of magnetic field</li> <li>Comprehend and apply Fleming's Left- hand rule for finding direction of force on a current carrying</li> </ul>
		Excretory Systems	conductor.

		<b>I</b>	
<ul> <li>SUB-TOPICS</li> <li>Transportation in human beings</li> <li>Human heart</li> <li>Transportation in plants</li> <li>Transport of water, food and other substances.</li> <li>Excretion in human beings</li> <li>Excretion in plants</li> </ul>	<ul> <li>presence of water of crystallization.</li> <li>Draw magnetic field lines for a bar magnet, in order to identify the magnetic field strength at different points around a magnet.</li> <li>Represent magnetic field lines for a straight current carrying conductor.</li> <li>Draw magnetic field lines for at current carrying circular loop.</li> <li>Outline magnetic field lines for at current carrying solenoid, in order to identify the magnetic field strength at different points around it.</li> <li>State Fleming's Left-Hand rule.</li> <li>Outline the double circulation of blood in fishes.</li> <li>Explain the function of xylem and phloem in Plants.</li> <li>Explain the function of</li> </ul>	<ul> <li>UNDERSTANDING:</li> <li>To identify the nature of the substances used in household activities using olfactory indicators.</li> <li>Identify the rules and directions, to find the magnetic field, Force on the current carrying conductor.</li> <li>Summarize working of human heart.</li> <li>Illustrate the structure and functioning of nephron.</li> </ul>	<ul> <li>Compare and contrast the structure and function of vein and artery. Emphasize on the Importance of lymphatic system.</li> <li>Discover the mechanism of transport of water in plants.</li> <li>Identify various waste products</li> <li>Understanding the importance of filtration and removal of liquid</li> <li>Waste (urine) through kidney</li> <li>Find out the waste products of plants &amp; Mechanism of their removal.</li> <li>Discover the impact of less intake of water on excretory</li> </ul>

	CHEMICAL	<ul> <li>transpiration in order to explain how water travels up in plants.</li> <li>Explain the function of phloem &amp; ATP, in order to explain how food is transported in Plants.</li> <li>Describe the function of blood vessels, arteries, platelets &amp;lymph in human body.</li> <li>Understands the process of excretion in various levels of organisms.</li> </ul>	KNOWLEDGE:		system.
AUGUST No of Days: 23	SUBSTANCES- NATURE AND BEHAVIOUR TOPIC: Chapter -3 Metals and Non- metals SUB-TOPICS • Physical and chemical properties of metals and non- metals • Reactivity series • Formation and properties of ionic	<ul> <li>Classify metals and non-metals based on their properties.</li> <li>Predict the products when metals &amp; non- metals react with oxygen, water, dilute acids in order to write a balanced chemical equation.</li> <li>Identify the product formed when a metal reacts with a metal salt, to list the metals in order</li> </ul>	<ul> <li>Prepare a Power point presentation on metals explaining their extraction according to their position in reactivity series</li> <li>Examine the advantages and disadvantages of AC and DC.</li> <li>Cover page</li> <li>Get the knowledge oh human endocrine glands and their hormonal secretion.</li> </ul>	Naturalist Intelligence Logical- Mathematical Intelligence Interpersonal Intelligence Visual-Spatial Intelligence.	<ul> <li>beamers will be able to: -</li> <li>Demonstrate properties of metals and nonmetals.</li> <li>Tabulate the reactivity series of metals.</li> <li>Draw schematic diagrams for ionic compounds and list the properties</li> <li>Identify various steps in the</li> </ul>

compounds	of their reactivity.		Existential	extraction of
Basic	Discuss formation	SKILL:	Intelligence	metals.
metallurgical	& properties of ionic	• Diagram making	_	Choose different
processes	compounds.	Analyzing	Linguistic	separating
<ul> <li>Corrosion and its</li> </ul>	• Analyze the process	Scientific skill	Intelligence	techniques for
prevention.	of getting metals	Problem solving		obtaining
F	from their oxides,	Creative thinking	High order	metals from the
EFFECTS OF	sulphides,		thinking skills:	ores
CURRENT	carbonates in order	APPLICATION:	Analysis and	Develop ways to
	to extract them	• LAB ACTIVITY:	synthesis	prevent
TOPIC:	from their ores.	Observing the		corrosion.
Chapter 12:	• Explain the process	action of Zn, Fe, Cu		• Study
Magnetic effects of	of electrolytic	and Al metals on		advantages of
current	refining.	the following salt		AC over DC.
	Observe corrosion	solutions:		• Understand
SUB-TOPICS	in metal articles &	i) ZnSO4(aq)		domestic
• Direct current.	its process in order	ii) FeSO <sub>4</sub> (aq)		electric circuit.
Alternating	to develop ways to	iii) CuSO4(aq)		• Know the
current:	prevent corrosion.	iv) $Al_2(SO_4)_3(aq)$		reason for short
Advantage of AC	• Understand DC and	Arranging Zn, Fe,		circuiting and
over DC.	AC current.	Cu and Al (metals) in		overloading.
• Domestic electric	• Discuss the	the decreasing order of		• Differentiate
circuits.	advantages of AC	reactivity based on		between
	over DC	the above result.		nervous and
TOPIC	Analyze the	Draw ionic		endocrine
Chapter 6 Control	significance of	structures of		system in
and Coordination	neutral, earth and	compound		animals.
	live wire	Sketch domestic		• Explain the
SUB-TOPICS	Explain short	electric circuit of		importance of
Animals nervous	circuiting and	your house and		reflex actions
system	overloading.	interpret the		and its reflex
Reflex action	• Explain the	advantages of		arc.
• Human brain	functioning of a	parallel circuit over		
Coordination in	neuron, in order to	series circuit.		
plants	explain how	• To study the		
Hormones in	electrical signals	phenomenon of		
animals.		phototropism and		

<ul> <li>travel in human body</li> <li>Outline the working of a reflex arc, in order to explain how reflex actions take place in humans</li> <li>Illustrate the location and functions of different parts of human brain, in order to understand the working of nervous system.</li> <li>Examine tropic movements in plants, in order to understand how plants respond to environmental triggers like light, gravity, water.</li> <li>Discuss limitations of electrical impulses, in order to outline the importance and use of hormones</li> <li>Illustrate the function of endocrine glands in the human hody in</li> </ul>	geotropism in plants poem on plant hormones UNDERSTANDING: • Compare the physical and chemical properties of metals and non- metals. • Infers and analyses the significance of neutral, earth and live wire, in order to understand the formation of a domestic electrical circuit. • Understand the structure and function of human of brain and spinal cord and their role in controlling different activities of human brain. • Infer and analyse the chemical coordination in plants.
function of	

SEPTEMBER No of Days: 05		CONDUCTION OF 2	VISION OF TERM1/PT-2 TERM 1/PT-2 ASSESSM	ENT	
OCTOBER No of Days: 22	<ul> <li>CHEMICAL SUBSTANCES- NATURE AND BEHAVIOUR</li> <li>TOPIC: Chapter-4 Carbon and its compounds</li> <li>SUB-TOPICS</li> <li>Covalent bonding in carbon compounds.</li> <li>Versatile nature of carbon.</li> <li>Saturated and Unsaturated carbon compounds</li> <li>Homologous series.</li> <li>Functional groups</li> <li>Nomenclature of carbon compounds</li> </ul>	<ul> <li>Learners will be able to: -</li> <li>Illustrate carbon with 4 valence electrons forming only covalent bonds.</li> <li>Correlate the bonds formed as single, double, triple to the number of pairs of electrons shared between them.</li> <li>Draw structures of carbon compounds in order to classify them as saturated or unsaturated.</li> <li>Classify carbon compounds in homologous series in order to predict their properties.</li> <li>Identify the functional group, type of bonding, number of C atoms present in a carbon compound, in order</li> </ul>	<ul> <li>KNOWLEDGE:</li> <li>List types of covalent bonds</li> <li>Draw introductory page on properties of light.</li> <li>cover page</li> <li>Summarise different modes of reproduction in organisms.</li> <li>SKILL: <ul> <li>Diagram making</li> <li>Analyzing</li> <li>Scientific skill</li> <li>Problem solving</li> <li>Creative thinking</li> </ul> </li> <li>APPLICATION: <ul> <li>Select the compound and tell the functional group.</li> <li>LAB ACTIVITY: - 1.Determination of the focal length of:</li> </ul> </li> </ul>	Naturalist Intelligence Logical- Mathematical Intelligence Interpersonal Intelligence Visual-Spatial Intelligence. Existential Intelligence Linguistic Intelligence	<ul> <li>Learners will be able to: -</li> <li>Differentiate and classify the carbon compounds with their properties</li> <li>Illustrate the structures of carbon compounds.</li> <li>Understand homologous series.</li> <li>Identify functional group.</li> <li>Name the carbon compounds.</li> <li>Understand the terms related to spherical mirrors and lenses.</li> <li>Draw the ray diagrams</li> </ul>

NATURAL	to correctly name	i) Concave mirror	Use mirror
PHENOMENON	them.	ii) Convex lens by	formula to solve
	• State the laws of	obtaining the	the numerical.
TOPIC	reflection of light	image of a distant	Understand
Chapter 9: Light –	• Outline the rule of	object.	sign convention
Reflection and	image formation by	• Tracing the path of	• Explore the
Refraction	spherical mirrors in	a ray of light	uses of
	order to complete	passing	spherical
SUB-TOPICS	the ray diagrams by	through a	Mirrors.
	drawing reflected	rectangular glass	• Explain the
Reflection of light	rays.	slab for different	laws of
1	• Express u, v, f in the	angles of incidence.	refraction of
Image Formation	mirror formula in	Measure the angle of	light.
by Spherical	order to apply sign	incidence, angle of	Calculate
Mirrors	convention in	refraction, angle of	refractive index
Representation of	solving word	emergence and interpret the result.	of different
Images Formed by	problems to find the	<ul> <li>Draw the different</li> </ul>	mediums.
Spherical Mirrors	unknown variable.	modes of	• Traces the path
Using Ray	• Deduce the nature	reproduction.	of light passing
<ul><li>Diagrams</li><li>Uses of mirrors</li></ul>	and size of image by magnification n in	<ul> <li>Studying (a) binary</li> </ul>	through a glass
	order to relate	fission in Amoeba,	slab.
Sign Convention     for Reflection by	height of object with	and (b) budding in	• identify the
Spherical Mirrors	height of image.	yeast and Hydra	types of lenses and define the
<ul> <li>Mirror Formula</li> </ul>	<ul> <li>List the uses of</li> </ul>	with the help of	terms related to
and	spherical mirrors.	prepared slides.	them
Magnification	<ul> <li>Explain refraction</li> </ul>	Identification of the	Discover rules
_	<ul> <li>Demonstrate the</li> </ul>	different parts of an	for obtaining
Refraction	path of light when it	embryo of a dicot	image formed
through a	travels through a	seed (Pea, gram or	lenses and draw
Rectangular Glass	rectangular glass	red kidney bean)	ray diagrams.
Slab	slab.		<ul> <li>Investigate the</li> </ul>
The Refractive	• Compare speed of	UNDERSTANDING:	uses of lenses in
Index	light in one medium	• Draw dot structures	our day-to-day
Refraction by	with another in	for covalent bonds	life, with the
Spherical Lenses	order to calculate	Draw Ray diagrams     for different	help of activity
	refractive index.	for different	

Image Formation by Lenses     REPRODUCTION TOPIC     Chapter-7 How do	• Represent the path of incident & reflected light rays from a concave and convex lens, in order to locate the position and nature of image	<ul> <li>positions of the objects for mirror and lenses.</li> <li>Comprehend sexual reproduction in flowering plans.</li> <li>Understand the</li> </ul>	<ul> <li>Differentiate between reproductive system of male and female.</li> <li>Prioritize reproductive</li> </ul>
Organisms Reproduce?	<ul><li>formed.</li><li>Discuss the importance of reproduction for</li></ul>	importance of using birth control.	<ul><li>health</li><li>Explain the embryo nourishment</li></ul>
<ul> <li>SUB-TOPICS</li> <li>Do organisms create exact copies of themselves</li> <li>The importance of variation</li> <li>Modes of reproduction used by single organisms</li> <li>Sexual reproduction in flowering plants</li> <li>Reproduction in human beings</li> <li>Reproductive health.</li> </ul>	continuity of generation.		inside the mother's body.

	CHEMICAL	Learners will be able	KNOWLEDGE:	Naturalist	Learners will be
	SUBSTANCES-	to: -		Intelligence	able to: -
	NATURE AND		• Realize the effect of		
	BEHAVIOUR	• Identify how carbon	alcohols on living	Logical-	Perform
		compounds react	beings.	Mathematical	chemical tests
	TOPIC:	with hydrogen in the	• Investigates the uses	Intelligence	in order to
	Chapter 4:	presence of nickel	of lenses in our day-		distinguish
	Carbon and its	catalyst.	to-day life	Interpersonal	between
	compounds	• Identify how carbon	• List the parts of eye	Intelligence	Ethanol &
		compounds react	and state their		Ethanoic acid
	SUB-TOPICS	with chlorine in the	function	Visual-Spatial	• Understand the
	Chemical	presence of sunlight.	• To impart the	Intelligence.	chemical
	properties of	Observe how carbon	knowledge of		properties of
	carbon	compounds burn in	heredity	Existential	carbon
	compounds	oxygen, in order to	• Know about the	Intelligence	compounds.
	• Some important	classify them as	dominance and		Demonstrates
	carbon	saturated or	recessive nature of	Linguistic	activities for the
NOVEMBER	compounds –	unsaturated	characters	Intelligence	preparation of
	ethanol and	• Perform physical	• Role of Ozone layer		soap and for
No of Days: 17	ethanoic acid	and chemical tests			identifying the
	• Soaps and	in order to	SKILL:		salts which
	detergents.	distinguish between	• Diagram making		cause hardness
		Ethanol & Ethanoic	<ul> <li>Analyzing</li> </ul>		in water.
	NATURAL	acid	<ul> <li>Scientific skill</li> </ul>		Understand
	PHENOMENON	• Describe the process	<ul> <li>Problem solving</li> </ul>		sign convention.
	TOPIC	of micelle formation	<ul> <li>Creative thinking</li> </ul>		Calculate power
	Chapter 9: Light –	in order to			of lens.
	Reflection and	understand how	APPLICATION:		• Explain the
	Refraction	soaps work	LAB ACTIVITY: -		Functions of
	Chapter 10: : Human	• Express u, v, f in the	1. Study of the		different parts
	Eye and The Colorful	lens formula in	following properties		of the eye,
	World	order to apply sign	of acetic acid		defective eye
		convention in	(ethanoic acid): i)		sight and the
	SUB-TOPICS	solving word	odour ii) solubility in		correction using
	Sign Convention	problems to find the	water iii) effect on		different lenses.
	for Spherical	unknown variable.	litmus iv) reaction		• Draw the shape
	Lenses				of the prism and

Donio i orinidia ana	• Deduce the nature	with Sodium		define angle of
Magnification	and size of image by	Hydrogen Carbonate		prism.
Power of lens	magnification n in	2. Study of the	•	Prove Prove
• The human eye	order to relate	comparative		of a ray of light
Defects of vision	height of object with	cleaning capacity of		through a glass
and their	height of image.	a sample of soap in		prism.
correction	• List the uses of	soft and hard water.	•	Deduce the
Refraction of light	spherical lenses.	• Tracing the path of		cause of
through a prism	• Calculate the power	the rays of light		dispersion.
Dispersion of	of a lens, in order to	through a glass	•	Deduce the
white light	determine its power	prism		reason for
through a prism	to converge or	• Determine the		apparent
• Atmospheric	diverge.	populations		position of star
refraction	• Illustrate the parts	phenotypic outcome		due to
Scattering of light	and function of	based on their		refraction and
applications in	human eye, in order	results from using a		the reason for
daily life(Excluding	to understand how	punnet square.		advanced
color of the sun at	humans see the	• Form a monohybrid		sunrise and
sunrise and sunset)	objects around them	cross using coloured		sunset.
,	• Identify the defects	beads and calculate	•	Develop concept
HEREDITY	of vision in human	the phenotypic and		of scattering of
TOPIC	eye (myopia,	genotypic ratios.		light and
CHAPTER-8 Heredity	hypermetropia,	• Tabulate the		Tyndall Effect.
	presbyopia) and	dihybrid cross and	•	Calculate the
SUB-TOPICS	their causes, in	observe the		phenotypic and
<ul> <li>Accumulation of</li> </ul>	order to devise a	Genotypic and		Genotypic
variation during	correction method	phenotypic ratios to		ratios.
reproduction	for them	formulate into	•	Define the laws
Heredity	• Examine the path of	Graphic		of Inheritance
Rules of	light rays through a	Organization.	•	Learn the
inheritance of	prism, in order to	• Make a DNA model		concept, need
traits-Mendel's	determine how light	• Form the Ecological		and importance
contributions	gets deviated when	Pyramids and co-		of waste
• How do these	travelling through a	relate it with		management.
traits get	prism	different	•	Form the
expressed	• Trace the path of	monuments/ things		Ecological
Sex determination	white light rays	found in daily life.		pyramids

<ul> <li>ENVIRONMENT</li> <li>TOPIC Chapter 13: Our Environment</li> <li>SUB-TOPICS:</li> <li>Ecosystem- What are its components?</li> <li>Food chain and webs</li> <li>Ozone layer depletion</li> <li>Garbage management</li> </ul>	<ul> <li>through a prism, in order to determine that white light is made of seven colours.</li> <li>Elaborate the process of atmospheric refraction, in order to understand natural phenomena, like twinkling of stars and advanced sunrise and delayed sunset</li> <li>Explain the process of scattering of light, in order to understand natural phenomena</li> <li>Understand the</li> </ul>	<ul> <li>UNDERSTANDING:</li> <li>Describe and compare the properties of alcohols and carboxylic acids.</li> <li>Draw the ray diagrams for different positions of the objects.</li> <li>Draw the Ray diagrams for Defects of eye and their correction.</li> <li>Relate changes in focal length of eye lens to vision of distant and nearby objects.</li> </ul>	Role of Ozone layer Garbage management.
management	of scattering of light, in order to understand natural	focal length of eye lens to vision of distant and nearby	

REVISION: PT-3			
CONDUCTION OF PT-3 ASSESSMENT			
DECEMBER	<b>REVISION / PREBOARD 1</b>		
No of Days: 17	REVISION / FREBOARD 1		
JANUARY	<b>REVISION/PREBOARD 2</b>		
No of Days: 21	REVISION/FREBORRD 2		
FEBRUARY	REMEDIAL CLASSES		
No of Days: 06			
MARCH	CLASS X BOARD EXAMS		