Curriculum Science: Class VII

General skills to be developed

- *To develop scientific temperament.
- *To enable critical thinking.
- *To enhance logical skill.

Objectives

- *To enquire and verify the given facts.
- *To make well developed diagrams, to enhance creative skill.
- *To articulate thoughts and ideas effectively using oral,written
- *Experimentation skill-to perform experiments under guidance.
- *Researching skill-to be able to gather information and critically analyse it. *Observational skill-1)observe the given situation carefully and are

and non-verbal communi	cation skills.	expected to infer it.	•		ISubject		
S. Content	Objectives	Skills	Learning Styles	Activity	Subject Integration	Outcome	Assessment
N Content	Objectives	SKIIIS	Learning Styles	Activity		At the end of the lesson, students	Assessment
1 NUTRITION IN PLANTS	To enable the students to	Listening ,speaking and	linguistic	Key words in notebooks.		•	Pen Paper Test-1
	*Recall importance of food in our daily		Bailetie	l words in notes on its	, are Blagranis		Notebook
	activities .	reading					assessment
	*Define nutrition and its types.	Comprehension	Intrapersonal	Role play-herbivore, carnivore,	Maths -balancing		class test
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				equation		
				'	'		
						*Comprehend the concept of	
	*Analyse how plants and animals get			Drawing neat and well labelled		nutrition and how animals utilize it.	
	their food ,and utilize it.		Visual	diagrams.			Lab work
						*Know the concept through various	
	* Define and explain the process of					experiments done in class/lab.	
	photosynthesis	Diagramatic expression.	logical	Balanced chemical equation.			Term-1
						*Understand the process of	
	with the help of chemical equtation			lab workslide of stomata,bread		photosynthesis with its	
	and diagrama- tic expression.	content organisation	Visual	mould,plant cell			
	* Evaluate the factors effecting			animal cell starch preparation in		chemical equation and diagramatic	
	photosynthesis.	experimental	Naturalistic and	leaves during		representatio	
	*observe and analyse through		bodily -	photosynthesis, chart of		representation.	
	experiments-		kinesthetic	insectivorous plants.			
	.Green plants produce oxygen during			L		*Define and learn the various	
	photosynthesis.	observations	Visual	To show varigated leaves.		modes of nutrition.	
	.leaves make starch as food and sun						
	light is necessary.		Interpersonal	Group discussion.			
	.photosynthesis takes place only in		Intranarcanal	To show video clips of			
	green portion.		Intrapersonal	insectivorous plants. Answering oral as well as			
	* Apply information to understand the role of leaves	listening ,analysing and	Intrapersonal	written questions.			
	in the process of photosynthesis and	liisteiiiilg ,allalysilig allu	iniciapersonal	written questions.			
	synthesis of	answering					
	food other than carbohydrates.	answering					
	rood other than carbonyarates.					At the end of the lesson the	
2 NUTRITION IN ANIMALS	To enble the students to-	listening ,speaking	linguistic	key words/key concepts			Unit test-1
1 -1.00.11.10.11.11.71.11.71.11.71.11.71.11.71.11.71.11.71.11.71.11.71.11.71.7	1.0 choic the students to	Inoceiming Joheanning	Impaire	ne, words, key concepts	I, ii is alagramatic	ottadento will be able	O (CSC 1

		*Recall nutrition, modes of nutrition in					to-	
			and reading			expression		class test
		*Comprehend the modes of procuring	· ·			•	*Understand mode of nutrition and	
			comprehension	interpersonal	group discussion		will be able to	Term -1
		*Understand and list the steps involved	•	·		Maths-number	explain them.	
		in the				and rows		
							*Comprehend the role of teeth and	
		process of nutrition.				of teeth	be able to	
H		*Analyse the role of various types of			By answering verbally as well in	01 (66)	De doic to	
			content organisation	intrapersonal	writing.		draw them neatly.	
		diagramatic expression of tooth,and	content organisation	Intrapersonal	Witting.	Life skill-how to	*Evaluate the role of various organs	
		-	and expression	logical	answering hots	brush,	in digestive	
		the importance of oral hygiene and	and expression	logical	answering nots		system along with the diagram.	
		,					system along with the diagram.	
		care				hygiene	*I Indorstand the rale of salice	
		*Evaluate the role of each erger of the			Diagram of the disective		*Understand the role of saliva.	
		*Evaluate the role of each organ of the			Diagram of the digestve		*Comprehend the process of	
		digestive		visual	system,chart.		digestion in grass	
		system along with their function and			_ , ,, ,, ,,			
			diagramatic -		To show video clip of digestion.		eating animals.	
		to draw a well labelled diagram of the					*Understand the process of	
			representation				feeding and digestion	
		*practically explain the role of saliva to	_	_	experimental work-role of		in amoeba and will be able to draw	
			experimental	visual	saliva in breaking down		it.	
		the starch into sugar through						
		experiment.			starch into sugar(lodine test)			
		*Comprehend the process of digestion						
		in grass						
		eating animals.						
		Diagramatic expression and			diagram of amoeba,chart and			
		comprenhesion of	diagramatic expression	visual	slide of amoeba			
		feeding and digestion in amoeba.	content organisation					
						S.St-wool and silk	At the end of the of the lesson	
	FIBRE TO FABRIC	To enable the students to-				produc-	students will be	Unit test 2
		*Recall the importance of fibre and			Key words/new concepts in	tion in various	able to -	
L		their sources	Listening,reading &	Linguistic	notebook.	areas		class test
]						*Know the process of production of	Note book
		(plants/animals)	speaking				wool and silk	assessment
	-	*Get the depth knowledge about			Showed sampler file-natural &	Art-diagramatic	fibre.	
		animal fibres-		visual	animal fibres.	expression		Term-2
		wool and silk along with their					*Understand the various processes	
		properties.		Bodily-	Pasting of wool and silk fibre.		involved	
					Scrap book of wool yielding		during the production of animal	
		*List wool yielding animals.	Observational	kinesthetic	animals.		fibre.	
•	1		•	1	1	ı		1

		*Comprehend the process of			Video clip showing life cycle of		*Know the process of sericulture and be able to draw life cycle of silk	
			Observational	Naturalistic	silk worm and		moth.	
		fibre into wool.			sericulture.		draw life cycle of silk moth.	
		*Define and explain sericulture ,life			Specimens -cocoons, chart of life		·	
		history of silk	Observational	Visual	cycle of silkmoth			
		moth, development of silk from cocoon.	Evaluation	Naturalistic	showed mullbery leaves.			
		*Draw the life cycle of silk worm.		Interpersonal	Group discussion.			
				Logical	Hots questions.			
					Showed files containing many			
					samples of fibres			
					and the process of making wool and silk from fibre			
			Listening & analysing	Intrapersonal	Answering oral as well as written questions.			
			Listering & analysing	Intrapersonal	Showed cocoons from which silk			
					is extracted.			
		*Recall that heat gives warmth,						
	4 HEAT	conversion of						
		one form of energy into heat by day to			rubbing hands,nail hammered-	Maths-units of	*Understand and learn the	
		day			warm	heat and	definition of heat ,	class test
		examples and understand that energy					units and their conversion.	
		gives	listening, speaking	linguistic	Key words and major concepts.	their conversion		
								Note book
			and reading					assessment
		*Understand and learn S.I. non S.I units of heat	Calculation	Logical	Looming conversion of write			Lab work-
		along with their conversion.	Calculation	Logical	Learning conversion of units.			assessment Term-1
		*Define temperature and know the						leiiii-i
		different						
		temperature scales.						
		,					*Read the laboratory & clinical	
		*Study and learn clinical and laboratory				Art-diagrams	thrmometer and	
		thermometers, their use and			Show clinical, laboratory and		understand similarites and	
		precautions taken	Diagramatic express-	visual/bodily	digital thermometer		differences between	
						S.St-Sea	the two.	
						breeze,land		
			ion	kinesthetic	diagrams.	breeze		
		*Tabulate and comparative study of	and Park	1	habla abay is a diff		*Learn about transfer of heat by	
			analytical	Intrapersonal	table showing difference.		convection,	
		thermometers, their similarities and					conduction and radiation and their	
I	I	differences.	l	I		I	application	l l

		*Analyse how heat is transferred in			lab work to explain convection			
		•	experimentation	visual/naturalis-	and conduction.		in day to day life.	
		and gases by conduction ,convection	•				*Draw neat and well labelled	
		and radiation.	observation	tic			diagrams of	
		*Define conductors and analyse use of			Handles of utensils as poor		thermometers ,land breeze and sea	
		conductors	co-relating to daily life	logical(reasoning	conductors		breeze.	
							*Logically answer reasoning	
		and insulators in day to day life.		question)			questions and cross-	
		*Define convection and the application		logical/reasonin			word puzzle	
		of	reasoning	g	lab work		·	
5 A	CIDS ,BASES AND SALTS	To enabie the students to-					Students will be able to-	UT-1
		*Recall the various substances present				Maths-balancing	*Get the depth knowledge of acids	
		in kitchen	Reading/listening	Linguistic	Key words and major concepts	chemical	,bases and	Class test
		and their properties.	and speaking			equation.	salts.	Practical
		*Classify substances as acidic ,basic					*Know the types of acids-natural	Note book
		and neutral	comprehension	Interpersonal	Discussion		and man made.	assessment
						Home science-	*Understand what are bases and	
		substances.				chemical	their uses.	Term-1 & Term-2
		*List out the types of acids(mineral			Tabulate day to day substances	composition of	*Analyse the use of natural and	
		and naturally		Intrapersonal	and acid present.	substances	man made	
					Common names of acids &	used in day to day	indicators to test acidic and basic	
		occuring acids)along with their uses.			bases.	life.	nature of substances.	
		*Understand the bases,their uses and					*Know and define neutralisation	
		list out some common bases.			Tabulate strong and weak bases.		reaction and	
		*Analyse the use of different indicators			Making and pasting turmeric			
		both	experimental	Visual/Bodily	paper along with		various applications based on it.	
					the colour change when put in			
		natural as well as man made.		kinesthetic	different substances			
		*Will be able to differentiate between						
		acids and		observational				
					By balancing the chemical			
					equations of neutralisation			
		bases on the basis of their properties.		Logical	reaction.			
		*Define and evaluate how						
		neutralisation can be	application		Lab work-			
		used in day to day situations like			To test the acidic, basic nature			
		treatment of tooth			of substances using			
		decay,treatment of			litmus papers, turmeric			
		indigestion,treatment of soil.			paper,phenolphthalein,			
					methyl orange and china rose			
					indicato rs.			
					Demonstration of neutralisation			
					reaction using			

DUVCICAL AND	To enable the students to			acid, base and phenolphthalein.			Classit
PHYSICAL AND	To enable the students to-						Class test
CHEMICAL CHANGES	*Define and comprehend reversible			experiments involving chemical		The students will be able to-	
	and	Experimentation and	Bodily -kinesthe-	reactions like	Art -diagrams		Practicals
						*Differentiate between reversible	Notebook
	_	observation (through	tic (experiment)			and	assessment
	*Know about physical & chemical			Neutralisation(vinegar and		irreversible changes and identify	
	changes and	lab experiments)	Interpersonal -	baking soda)		them.	Term-1
				Displacement of copper from		*Differentiate & identify physical	
	their characteristics.	Application (to find out	(by discussing)	copper sulphate.		and chemical	
						changes.	
	*Differentiate between physical and			Making crystals of copper		*Know about rusting and different	
	chemical	reversible and irrever-	Intrapersonal -	sulphate using super -		methods to	
				saturated solution &		prevent it.	
	changes.	sible changes)	(by answering)	evaporation.			
	*Explain some typical physical and	<u> </u>		Showing some physical changes		*Know the concept of	
	chemical		Visual by(obser-	in the class like		crystallisation.	
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	breaking of a stick and changes		*Explain some physical and	
	changes occuring in day to day life.	Listening & speaking	vation)	in the state of		chemical changes.	
	*Know about rusting and learn	Listerining of Specialing	V ucion,	in the state of		enemed enanges.	
	different methods	(by reading)	Naturalistic -(by	water etc			
	different methods	(by reading)	Ivataranstic (by	To show that burning of			
	to prevent rusting.		processes like	magnesium ribbon is a			
	-		processes like	linagnesium ribbon is a			
	*Know about the process of			ah aminal ahan aa			
1	crystallisation.		rusting etc)	chemical change.			
				Sublimation process by using			
				Ammonium chloride			
WEATHER ,CLIMATE	To enable the studentsto-					L	Class test
AND ADAPTATION TO	*Recall the day to day weather and					The chiidren will be able to-	Notebook
CLIMATE	relate it to	Recollection	Interpersonal/	Group discussion			Assessmen
						*Define and learn about weather	
	weather report in the newspaper.	Reading/listening	intrapersonal	Key words/ concept	S.St	and climate.	Term-2
	*Define and comprehend the terms				Climatic adaption		
	weather,		linguistic		and		
	meteorology and various terms related					*Know the importance of weather	
	to it.				weather changes	forecasting .	
	*Understand the importance of			Paste waether report for a week		*Analyse the importance of	
	weather -	Content organisation	Intrapersonal	with detailed		weather monitoring.	
		-				*Differentiate between climate and	1
	forecasting.		bodily-	information.		weather.	
			,			*Know and learn about the various	
			kinesthetic.			adaptation	

	*Analyse the importance of weather					of animals to different region.	
	monitoring					· ·	
	by using maximum and minimum						
	thermometer.					Solve the cross word puzzle.	
	*Define climate and learn about the					·	
	geographical						
	factors which affect the climate of the						
	place.						
	*Tabulate the difference between						
	weather and	Analytical	Logical	Table of differences.			
	climate.	,					
SOIL	To enable the students to-						
•	*Know how soil is formed and role of				S.St-soil and its	To enable the students to-	Note book
	water, roots	Recllection	Intrapersonal	Key words	role in		assessment
	of plants, temperature, chemical		'		growing crops In	*Know the formation of soil and	
	weathering in soil	Reading/learning	Linguistic		different		class test
					ı	factors responsible for soil	
	formation.	speaking			areas.	1	Term 2
	*View,draw and explain different					*To draw and get depth knowledge	
	layers of the	Comprehension	Intrapersonal	Discussion(group)		of various	
	soil.	Diagramatic-expressi-				layers of soil.	
	*Analyse soil on the basis of their	- 100 - 111 - 111		Class activity-to identify		*Define and understand the	
	contents-sandy	on/Observation	Visual/naturalis-	different layers of soil.		importance of	
	clayey and loamy.		tic	To observe samples of soil.		various types of soil.	
	*Do comparative study of sandy, clayey					*List out various crops suitable for	
	and loamy	Content organisation	Interpersonal	Tabulation(making a table)		particular	
	soil.	a control of games and			I	type of soil.	
	*Compehend the properties of the soil			Activities-percolation rate, soil	I	*Differentiate what is soil erosion	
		Comprehension		contain moisture,		and	
	<u>'</u>	'		water retaining capacity of		afforestation and how soil erosion	
	various activities.			various soils.		can be prevented.	
	*Identify the type of soil suitable for					·	
		Observation	Visual				
	type of crop.						
	*Analyse the causes of soil erosion &						
	evaluate		Visual/naturalis-				
	how it can be prevented.		tic				
RESPIRATION IN	,				Art-by drawing		
ORGANISMS	To enable the students to -	Listening and speaking	Linguistic by	Listing key words.	diagrams.	The students will be able to-	
		0 11,11 10					Note book
	*Define and comprehend respiration.	by reading.	learning new/			differentiate between	assessment
	*Know and differentiate between the	, 6	8,			types of respiration.	
	types of		key words.		Maths-measuring	1	Class test
1	1-7,600 0.	I	15,5	ı	1	I	

							*Define & comprehend breathing.	
		respiration.	Visual(chart & diagram)	Visual through		breathing rate.		Practical
		*Define and comprehend breathing.		charts and diagr-			*Analyse mechanism of breathing.	Term -1
							*Differentiate between breathing	
		*Understand how it is done.		ams on boards.			and respiration.	
		*Analyse the mechanism of breathing.	Evnorimentation	Bodily kinesthetic	Measuring breathing rate at rest and after exercise.		*Understand respiration in other animals and plants.	
		*Differentiate between the breathing	Experimentation	Killestiletic	and after exercise.		ailillais allu plailts.	
		_	Application	(breathing rate				
					Measuring the change in chest			
		respiration.		at rest and after	size during breathing.			
		*Understand how other plants and						
		animals respire.		exercise). Interpersonal -	Experiment to show -			
H				interpersonar-	Experiment to snow -			
				by discussing	*exhaled air contains moisture.			
					*exhaled air contains carbon			
				various concepts	dioxide which makes			
				Intranarcanal by	lima watar millar			
				answering	lime water milky.			
				questions.				
TF	RANSPORTATION IN			•				
11 A	NIMALS AND		Listening and speaking		Listing the key words.	Medical science		Pen paper test -2
	LANITC	*Understsnd transportation in animals	ho and de	learning			*Understand the transportation in	Classitant
	LANTS	and plants. *The functions of excretory system	by reading	new/key			plants and	Class test Note book
		along with		words & new		Arts-diagrams	animals.	assessment
		S			Model of heart & chart of	J	*Know the organs and functions of	
		the organs.		concepts.	excretory system &		circulatory	Term -2
		*List and summerize the various	NC	No control of			system.	
		components of	Visual/observation	Visual through	circulatory system.		*List the components of blood &	
		blood along with their functions.		charts, diagrams			summerize their	
		*Interpret the role of blood in the		, 181		1	functions.	
		transport of		Video clips.				
							*Interpret the role of blood in	
		oxygen.			Lab work to magazine the heart		transport of oxygen	
		*Distinguish between the three types of blood	Experimentation/	Bodily kinesthe-	Lab work- to measure the heart beat and pulse rate		*Distinguish between various types of blood	
			•	•	& to show transpiration.		vessels.	
		*Digramatically represent the human			Stethoscope shown and heart		*Draw a neat and well labelled	
		heart ,			beat heard using it.		diagram of heart.	

		knowing about it in detail-its			Discussion of concepts and			
		description and	Expression	Interpersonal	question & answers.		*Comprehend blood circulation.	
		functioning.	observation					
		*Comprehend the circulation of blood			By answering oral questions and		*Know the definition of pulse rate	
		in the body.		Intrapersonal	maintaining a		& heart beat.	
		*Define and understand pulse rate and					*Understand the excretory system	
		heart beat.			record of them in the note book.		and removal	
					Well labelled diagram of human		of solid, liquid & gaseous waste.	
		*Comprehend excretion in animals.	Drawing & labelling	Visual	heart.			
		*Understasnd how solid,liquid &					Excretory system aiong with the	
		gaseous wastes	skill-diagramatic				function.	
							*Understand the vascular system.	
		are removed.	representation of					
		*List the organs of excretory system					*Understand and describe	
		along with	structure of heart				translocation.	
							*Understand transpiration ,the	
		their description and function.	Diagram of human	Visual	Making diagram.		factors affecting	
			excretory system				it and its importance.	
	REPRODUCTION IN							
1	2 PLANTS	To enable the students to-						UT-2
		*Define, understand and classify the			Listing key words and learning	Arts -by drawing	The students will be able to-	
		various modes of	Listening & speaking	Linguistic	new concepts.	diagrams		Class test
							*Define,understand & classify	Note book
		reproduction in plants.	by reading.				various methods	assessment
		*Comprehend and diagramatically			Chart of structure of flower and		of reproduction in plants.	
		represent the	Observation	Visual by charts	fertilisation in			Term-2
		different modes of asexual					*Draw neat and well labelled	
		reproduction in plants.		specimens &	plants.		diagrams of	
		*Study in detail the vegetative						
		propagation of plants	Diagramatic-	models.			mehods of asexual reproduction.	
					Draw neat & well labelled		*Study in detail vegetative	
		by natural & artificial methods.	representation	Visual through	diagrams of structure of		propagation in plants.	
		*Describe sexual reproduction in			flower, as exual reproduction in		*Diagramatically represent	
		flowering plants		making diagrams	organisms.		structure of flower	
		with the help of a diagram (by		l			and its explanation.	
		knowing the various		on the board.			*5 (1)	
		reproductive parts of a flower and					*Define and understand the	
		their respective					mechanism of	
				r \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Methods of vegetative			
\vdash		function).	Observation	Visual/	propagation in plants with		reproduction in plants.	
		*Define and describe the various steps		Natural C	the belong the con-			
		In		Naturalistic	the help of the gardener.			
		mechanism of sexual reproduction in			Sexual parts and other parts of a			
	1	plants like	l	1	flower.	I	I	I I

		pollination, fertilisation, formation of			By answering the questions and			
		seeds,	Expression	Intrapersonal	maintaining the			
		formation of fruits, germination of						
		seed.			record in the note book.			
				Interpersonal	Discussion in class.			
					Reproductive parts of china rose			
					were shown.			
					Lab activity-vegetative			
					reproduction in potato &			
					rose.			
					Showed vegetative reproduction			
					in the class by the			
					students-rose			
					,potato,ginger,money			
					plant,sweet			
-					potato.			
	AACTION AND TIME	To analyze the attraction	Listanina and seed	Line, delle le	•	Maths-numericals	The standard will be selected.	Classitasi
13	MOTION AND TIME	To enable the students to-	Listening and speaking	Linguistic-by	Listing the Key Words	& graph	The students will be able to-	Class test
		*Define and differentiate between	1 10			& graph		Notebook
		state of rest	by reading	learning new			motion and	assessment
						S.St-By knowing	rest.	
		and motion.		terminology		history of		Term -1
		*Analyse that motion is a relative term				measurement of	*Analyse that motion is a relative	
		and define				time in	term.	
		time period.				ancient age(Janter	*Know the types of motion.	
				Bodily	Lab work-To determine the time	Mantar).	*Know about ancient methods of	
		*Identify the types of motions.	Experimentation and	kinesthetic	period of a simple		measuring time.	
		*Acquire knowledge about the various					*Define,calculate & differentiate	
		ancient &	observation.	and visual(by	pendulum.		between speed	
					Models of sand clock & sundial		& average speed.	
		modern methods of measuring time.		viewing various	were shown.			
		*Comprehend oscillatory & periodic		picture of	Showed pendulum- mean &		*Know the difference between	
		motion.	Expression	ancient	extreme positions.		uniform and	
		*Define,calculate and differentiate		&modern				
		between	Mathematical	devices			non uniform motion.	
		l		6			*Draw neat distance-time graph	
<u> </u>		speed and average speed.		of time			and interpret	
		*Differentiate between uniform and		measu+E14:E15r				
		non-uniform		ement			types of motion.	
		l			Discussion of concepts &			
		motion.		Interpersonal	questions /answers.			
		*Identify, interpret and draw the						
1		distance -time	Graphical-	Intrapersonal	By answering oral questions.			

			graph for uniform and non uniform						
			motion.	representation	Logical/	By solving numericals.			
		LECTRIC CURRENT AND					Arts-drawing		
	14 1	TS EFFECTS	To enable yhe students to -				electric	The students will be able to-	UT-2
			*Define and comprehend electric					*Define, comprehend,identify and	
				Listening & speaking	Linguistic -by	By listing key words.	bell	draw	Class test
			*Draw and identify the symbols of	buroading	loorning now			electrical circuit.	Note book
			various	by reading	learning new concepts &			*Sat up a simple model of electrical	assessment
			electrical components.	Diagramatical	terms			*Set up a simple model of electrical circuit.	Term -2
			ciccincal components.	Diagramatical	terms			*Analyse the effects of electric	Term 2
				ronrocontation	Vicual	Drawing circuit diagrams & electric bell.		current.	
-	+			representation	Visual				
						Setting up a simple working	Electrical	*Understand the applications of	
			*Set up a simple electrical circuit.	Mechanical	Bodily -	electric circuit	Engineering	heating as well	
					kinesthetic			as magnetic effects of current.	
			*Gain knowledge about the various			Devices used in an electric		*Know the principle behind the	
				Observation	Visual	circuit-switch ,cell ,		working of	
			currents(Heating and Magnetic effect					electrical gadgets.	
			in detail)			battery etc.		***	
								*Know the importance of	
			*Comprehend the various applications					electromagnet.	
				Application				*Know the working of electric bell.	
-				The second second		Making of a simple electro-			
			as well as magnetic effects of current.		Bodily -	magnet.			
			*Understand the principle behind the			Showing magnetic effect of			
			working		kinesthetic	current with a			
			of electric fuse ,electromagnet &						
			electric bell.			compass and needle.			
						Showing working model of			
				Observation	Visual/bodily-	eiectric bell.			
			*Understand the working of an electric		kinesthetic	Model of railway crossing signal			
			bell.		Kinesthetic	using magnets.			
						Samples of different types of			
						electric fuses were shown.			
						Discussion of concepts and			
				Expression	Interpersonal	questions & answers.			
				глрі Сээіоп	mici personal	Answering questions and self	†		
					Intrapersonal	study.			
1	15 L	IGHT	To enable the students to-					The students will be able to-	Classtest
			*Define and draw rays and beams of			By listing spellog/key words &	Arts-through	*Identify the beam of light as	Note book
			light.	Listening and speaking	Linguistic	reading of the	drawing	parallel, divergent	assesment

	*Differentiate between				various ray	or convergent.	
	parallel, divergent and b	oy reading		chapter.	diagrams		Term -2
				Drawing of ray diagrams for		*Differentiate between a real and a	
	convergent beam of light.	Drawing through	Visual/spatial	mirrors and lenses		virtual	
	*Describe the phenomena of reflection				Optics(by	image.	
	of light.	diagramatic represen-	bodily-	(concave as well as convex).	undersanding	•	
	*Distinguish between real and virtual				the property of	*Retell the properties of the image	
	images.	ation	kinesthetic		reflection	formed by	
	*Prove the properties of image formed					a plane mirror.	
	by a plane	Experimentation	Bodily-	Lab activity-	of light)		
				Using a plane mirror proving all		*Identify convex and concave	
	mirror.		Kinesthetic	the properties		mirrors.	
	*Identify spherical mirrors(concave					*Draw the ray diagrams for the	
	and convex)	Observation	Visual/tangible	of the image.		formation of	
				-			
	*Draw the ray diagrams for the			Indentify convex and concave		images by spherical mirrors and	
	formation of images	Diagramatic represen-	bodily-	mirrors by observing		lenses.	
	by convex and concave mirrors and						
	describe the to	ation	kinesthetic	the surface.			
	properties of image in each case.		Learning by	Touch and differentiate lenses.			
	*Retell the uses of plane ,convex and			Ray diagrams by exact		*Apply the knowledge of uses of	
	concave	Application	doing	measurement.		spherical mirrors	
				By applying the knowledge of		and lenses for using them.	
	mirrors.		Application of	uses of mirrors and		-	
	*Comprehend what is a lense and its			lenses in their daily life to use		*Use a magnifying glass and know	
	types.		knowledge	them like-in torches		the principle	
	*Describe the converging and diverging			rear-view mirrors dentist`s		behind its woking.	
	action of			mirror			
T						*Comprehend the reason of	
	lenses.					splitting of white	
	*Differentiate between a concave and			By listing the differences		light into seven colours and the	
	convex lens.	Comparison/		between them.		formation of a	
		·	visual			rainbow.	
						*Make Newton`s colour disc on	
		Гangible				their own.	
	*Draw the ray diagram for the			By drawing all the ray diagrams			
	formation of images	diagramatic represen-		in the notebook.			
		ation	-				
	*Reword the uses of convex and			Seeing through a magnifying			
		_ogical		glass.			
	*Retell the principle of a magnifying	-		-			
		reasoning	matical				
•		- 1	·	ı	.		l

*Comprehend the phenomer dispersion of	na of Logical	Reasoning			
white light and the reason be	chind it. Making of a model	Bodily-			
*To interpret the rainbow as	an		Making of a Newton's colour		
example of the		kinesthetic	disc.		
dispersion of white light.			Showed dispersion of light/spectrum of colours		
*Know what is a Newton disc	2.		in soap bubbles,oil drop, C.D.		