Espalier-The Heritage School

				Annı	ual Academic Plai	nning (202	2-23)				
		Grade: VI					Subject : So	ience			
Sr no	Propose d date	Points to cover	Lesson Plan	Methodology	Teaching Aid	Location	Activities/ Diagram/ Map work	Reff books with pg. no.	No. of lectur es	Learning Outcome	Art Integrety
1		Learning objective-* Develop conceptual clarity of the chapter *Know about varieties of food and their ingredient.	lesson Step 2 -Visit to field. Step 3- teacher asks question to the students	Recitation, observation, discussion, drawing explanation , writing, reading.	1)Different food items. 2)Pictures of different animals and Plants 3) A plant 4) Farm and farm animals 5) video (Edible Parts of Plant and Types of animals)	classroom	work 1) What do we eat? 2) Ingredients in the food items 3) Identify the edible parts of plant 4) Sprouting of seeds 5) What animals eat?	1) NCERT textbook	es 12	1) Identify materials and organism 2) classifies materials, organisms and processes based on observable properties	Make your favourite salad and write down all the ingredients in it.Also specify from where the ingredients have come - plant, animals, others.

2	Lesson No/Name : 4.	Step1 - Read the	Recitation,	1) Different	classroom	Activity to show	1) NCERT	12	Classify objects	
	Sorting Materials into	lesson	observation,	Materials.		solubility of solid	textbook 2)		around them into	
	Groups	Step 2- Collect	discussion,	2)Transparent		and liquid in	Internet 3)		similar groups.	
	Learning objective- * 1.	the objects	drawing	and Opaque		water.	Reference		Define the term	
	Classify objects around	Step 3- teacher	explanation ,	material3)		Activity to	books		transparency.	
	them into similar groups.	asks question to	writing,	Water, salt,		demonstrate			Explain the solubility	
	Define the term	the students	reading,	sugar 4) Video (which object			of objects in water.	
	transparency.	<u>Teacher</u>	technology	Differen		floats and sinks			Identify materials that	
	2. Explain the solubility of	<u>questions</u>	based			in water			float in water.	
	objects in water. Identify	1] What are the							Distinguish between	
	materials that float in	objects made of?							transparent,	
	water	2]What are the							translucent and	
	3. Distinguish between	properties of							opaque materials.	
	transparent, translucent	materials like								
	and opaque materials	iron, wood etc?								
	<u>Text Exercises.</u>	3]Do object float								
	*Question and answer	and sink? 4]								
	* Match the pair * Fill	Objects around								
	in the blanks	us and material								
	* True or false	they are made								
	Notebook work *	of.								
	Answer the following	5] Similarity								
	* *Question and answer	between								
	* Match the pair * Fill in	different object								
	the blanks *	on basis that								
	True or false	they are made of								
		same material.								
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3	Lesson No/Name : 10.	Step1 - Read the	Recitation,	rulers, tape	classroom	Measurement of	1) NCERT	12	measures physical	Draw a map
	Motion and	lesson	observation,	measures, meter		desk and	textbook 2)		quantities and	of your
	Measurement of	Step 2- measure	discussion,	sticks,paper		different	Internet 3)		expresses	room, roll a
	Distances	the objects in	drawing,	clips,yarn,counti		motions 2) Video	Reference		in SI units, e.g., length	ball on the
	<u>Learning objective</u> - *	classroom	experiments	ng		watching	books		motion as rectilinear,	floor. In your
	describe units of measure	Step 3- teacher	explanation ,	cubes,thermome					circular, periodic etc.	map mark
	Types of motion	asks question to	writing,	ter,ounce and						the points
	use measuring tools	the students	reading,	pound scales,						where the
	explain purpose of	<u>Teacher</u>	technology	video on motion						ball started
	measuring	<u>questions</u>	based							and where it
	describe methods of	1] Find the								stopped.
	measuring	length of the								Show also
	Text Exercises.	desk								the path it
	*Question and answer	2]100 cm is how								moved
	* Match the pair	many meters?								along.
	* Fill in the blanks	3]how to								
	* True or false	measure an								
	Notebook work *	curved surface?								
	Answer the following	4] . Step 4 -								
	* *Question and answer	Teacher helps								
	* Match the pair	students to carry								
	* Fill in the blanks	out various								
	* True or false	activities								
		discussed in the								
		book.								
		Explanation-								
		*Teacher								
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4	Lesson No/Name : 14-	Step1 - Read the	Recitation,	measurement	classroom	Measurement of	1) NCERT	8	Water cycle, storage	water cycle
	Water	lesson	observation,	cylinder and jars,		liquids 2) Video	textbook 2)		of water, fresh water	song, write
	Learning objective- *	Step 2- Measure	discussion,	video on water		watching	Internet 3)		and consumtion,	slogans of
	Calculate how much	usage of water	drawing,	cycle			Reference		water shortage and	your own on
	water we use on a daily	Step 3- teacher	experiments				books		solution	"save water"
	basis	asks question to	explanation ,							
	Identify the sources of	the students	writing,							
	fresh drinking water	<u>Teacher</u>	reading,							
	Explain, using	<u>questions</u>	technology							
	experiments, why	1] How much	based							
	drinking salt water is bad	water used for								
	for us	brushing teeth								
	Convert salt water into	2]100 cm is how								
	fresh drinking water	many meters?								
	Discuss the problem of	3]how to								
	water shortage in Delhi	measure an								
	Collaborate to find	curved surface?								
	solutions for the water	4] . <u>Step 4 -</u>								
	shortage problem	Teacher helps								
	Describe the water cycle	students to carry								
	and explain how clouds	out various								
	are formed	activities								
	Reverse engineer to find	discussed in the								
	how fresh drinking water	book.								
	gets to our homes	Explanation-								
	<u>Text Exercises.</u>	*Teacher								
	*Question and answer	explains water								

5	Lesson No/Name : - 2	Step1-	Recitation,	caustic soda,	classroom	testing of	1) NCERT	10	conducts simple	Chart
	Components of Food	Explanation of	observation,	copper sulphate,		components and	textbook 2)		investigations to seek	making-
	Learning objective- *	chapter	discussion,	iodine, water,		watching video	Internet 3)		answers to queries,	Fats, starch,
	Nutrients of the food	Step 2- Activities	drawing,	test tubes, tissue			Reference		e.g., What are the	proteins .
	*What different food	in the textbook	experiments	paper, food			books		food	Write names
	item contains *Test	and making food	explanation ,	items (dal, rice					nutrients present in	or draw
	for Starch, protein and	pyramid	writing,	flour, groundnut)					animal fodder? relates	pictures of
	fats *Deficiency	Step 3- teacher	reading,						processes and	food stuffs
	Diseases	asks question to	technology						phenomenon with	under each
	*Balanced diet and Food	the students	based						causes, e.g.,	category.
	pyramid	<u>Teacher</u>							deficiency diseases	
	<u>Text Exercises.</u>	<u>questions</u>							with diet;	
	*Question and answer	1] What is								
	* Match the pair* Fill in	balanced diet?								
	the blanks *	2]What are								
	True or false	nutrients 3]Why								
	Notebook work *	are defiency								
	Answer the following	diseases caused								
	* *Question and answer	Step 4 - Teacher								
	Match the pair	helps students to								
	* Fill in the blanks * True	carry out various								
	or false	activities								
		discussed in the								
		book.								
		Explanation-								

6	Lesson No/Name : - 5-	Step1-	Recitation,	Salt, sugar,	classroom	dissolution,	1) NCERT	12	separating materials,	sieve the
	Separation of Subtances	Explanation of	observation,	water, soil,		sedimentation,	textbook 2)		exhibits values of	flour to
	Learning objective- *	chapter	discussion,	wheat grains,		filtration,	Internet 3)		honesty, objectivity,	separate
	Methods of separation	Step 2- Activities	drawing,	burner, filter		whinnoing	Reference		cooperation, freedom	coarse flour
	*Necessity of Separation	in the textbook	experiments	paper, etc			books		from fear and	from it.
	*More than one method	Step 3- teacher	explanation ,						prejudices.	
	of separation	asks question to	writing,							
	<u>Text Exercises.</u>	the students	reading,							
	*Question and answer	<u>Teacher</u>	technology							
	* Match the pair* Fill in	questions	based							
	the blanks *	1] Why is								
	True or false	separation								
	Notebook work *	important?								
	Answer the following	2]How is								
	* *Question and answer	evaporation								
	Match the pair	done? 3]What is								
	* Fill in the blanks * True	filtration?								
	or false	Step 4 - Teacher								
		helps students to								
		carry out various								
		activities								
		discussed in the								
		book.								
		Explanation-								

7	Lesson No/Name : - 11-	Step1-	Recitation,	mirror, paper,	classroom	shadow	1) NCERT	12	constructs models	Shadows of
	Light, Shadows and	·	observation,	plastic sheet,			textbook 2)		using materials from	animals
	Reflection	· ·	discussion,	torch, cardboard		•	Internet 3)		surroundings and	hidden in
	Learning objective- *	Step 2- Activities	drawing,	box, pipe, comb,		making,	Reference		explains their working,	your hand.
	Concept of Translucent,	in the textbook	experiments	objects etc		_	books		e.g., pinhole camera,	
	transparent and opaque	Step 3- teacher	explanation ,						periscope, electric	
	*Shadows and how are	asks question to	writing,						torch, etc. formation	
	they formed *Pinhole	the students	reading,						of shadows;	
	camera	<u>Teacher</u>	technology						reflection of light from	
	*Light travels in straight	questions	based						plane mirror	
	line *Mirrors	1]What is light?								
	and its types	2]Name few								
	*Reflection	opaque								
	Text Exercises.	material?								
	*Question and answer	3]What is								
	* Match the pair* Fill in	reflection?								
	the blanks *	Step 4 - Teacher								
	True or false	helps students to								
	Notebook work *	carry out various								
	Answer the following	activities								
	* *Question and answer	discussed in the								
	Match the pair	book.								
	* Fill in the blanks * True	Explanation-								
	or false	*Teacher								

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8	Lesson No/Name : - 12-		Recitation,	bulb, wires,		making circuit,	1) NCERT	classifies materials	Draw a dry
		Explanation of	observation,	switch, pastic,		insulators and	textbook 2)	into transparent,	cell and label
	Learning objective - * to	chapter	discussion,	pin, scissors,		conductors	Internet 3)	translucent and	it
	know Electric cell	Step 2- Activities	drawing,	electric current,		differentiation	Reference	opaque, differentiate	
	*to know the Flow of	in the textbook	experiments	batteries, cell etc		test	books	electrical conductors	
	electricity	Step 3- teacher	explanation ,					and insulators;	
	*to know closed and	asks question to	writing,					on the basis of their	
	open circuit	the students	reading,					properties, structure	
	*to know about electric	<u>Teacher</u>	technology					and functions	
	conductors and insulators	questions	based						
	Text Exercises.	1]What is							
	*Question and answer	electricity							
	* Match the pair* Fill in	2]What is a							
	the blanks *	closed circuit?							
	True or false	3]Why is							
	Notebook work *	insulation							
	Answer the following	necessary?							
	* *Question and answer	Step 4 - Teacher							
	Match the pair	helps students to							
	* Fill in the blanks * True	carry out various							
	or false	activities							
		discussed in the							
		book.							
		Explanation-							
		*Teacher							

Lesson No/Name: - 15- Air Around Us Learning objective- * to know air occupies space *to know content of air *soil has air	Project based chapter: Small experiments on air like air has air has mass, making windwane, air occupies space, air has oxygen, balloon car etc	1) NCERT textbook 2) Internet 3) Reference books	8	variations in composition of air; exhibits creativity in designing, planning, making use of available resources, etc. • exhibits values of honesty, objectivity, cooperation, freedom from fear and prejudices.	What's in the air song,
Lesson No/Name: - 16- Garbage in Garbage out- Learning objective-* to know how to deal with garbage *to know about vermicompost *recycling of paper *Plastic is a boon or a curse	Project based chapter: Vermicompost, PPT by students, garbage separation and awareness about it, composting, recycling of paper and pastic awareness	1) NCERT textbook 2) Internet 3) Reference books	8	exhibits creativity in designing, planning, making use of available resources, etc. • exhibits values of honesty, objectivity, cooperation, freedom from fear and prejudices. generation of waste; spreading awareness to adopt rain water harvesting; care for plants, etc.	Make any thing from scratch(Brst from Waste)

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11	Lesson No/Name : - 3-	Step1-	Recitation,	cotton balls,	classroom	knitting and	1) NCERT	12	separating materials;	Collect
	Fibre to Fabric	Explanation of	observation,	spinning, charka,		apinning of	textbook 2)		selecting season	unused cloth
	Learning objective - * to	chapter	discussion,	knitting needles,		charka	Internet 3)		appropriate fabrics,	pieces and
	know Variety if Fabrics	Step 2- Activities	drawing,	scissor and paper			Reference		plant fibres, flowers,	make a
	*to know different plant	in the textbook	experiments	(2 different			books		on the basis	handkerchief
	fibres *Spinning of cotton	Step 3- teacher	explanation ,	colours)					of observable	out of it
	yarn	asks question to	writing,						features, i.e.,	
	*to know about knitting	the students	reading,						appearance,	
	*to know history of	<u>Teacher</u>	technology						texture, function,	
	clothing material	<u>questions</u>	based						aroma, etc. exhibits	
	Text Exercises.	1]What are							creativity in designing,	
	*Question and answer	fabrics							planning,	
	* Match the pair* Fill in	2]What are							making use of	
	the blanks *	sources of fibres							available resources,	
	True or false	3) How make							etc.	
	Notebook work *	fabric out of yarn							 exhibits values of 	
	Answer the following	? Step 4 -							honesty, objectivity,	
	* *Question and answer	Teacher helps							cooperation, freedom	
	Match the pair	students to carry							from fear and	
	* Fill in the blanks * True	out various							prejudices.	
	or false	activities								
		discussed in the								
		book.								
		Explanation-								
		*Teacher								

12	Lesson No/Name : - 6	Step1-	Recitation,	paper, dough,	classroom	kneading of	1) NCERT	10	classifies materials,	Learn from
	Changes around Us	Explanation of	observation,	candle, burner	5.033.03111	dough, making	textbook 2)		materials as soluble,	your mother
		chapter	discussion,	etc		aeroplane,	Internet 3)		insoluble,	process of
	know about reversible	Step 2- Activities				burning of	Reference		changes as can be	making curd
		in the textbook	experiments			candle, melting	books		reversed and cannot	from milk.
	*to know about chemical		explanation ,			of ice etc.	BOOKS		be	
	and physical changes	asks question to	writing,			or ice etc.			reversed; Can all	
	1 ' '	the students	reading,						physical changes be	
	evaporation, condesation		technology						reversed?	
	and contraction	questions	based						l'everseu:	
	Text Exercises.	1]Can ice can	Daseu							
		-								
	*Question and answer	change its state?								
	* Match the pair* Fill in	2]What is								
	the blanks *	reversible								
	True or false	change? 3) Does								
	Notebook work *	things change								
	Answer the following	form after								
	* *Question and answer	mixing?								
	Match the pair	Step 4 - Teacher								
	* Fill in the blanks * True	helps students to								
	or false	carry out various								
		activities								
		discussed in the								
		book.								

13	Lesson No/Name : - 9-	Step1-	Recitation,	soil, animal	classroom	Simon says,	1) NCERT	10	components of	Make a
	The Living organisms and	Explanation of	observation,	models, seeds,		germination,	textbook 2)		habitat	habitat
	their surroundings	chapter	discussion,	water		create various	Internet 3)		as biotic and abiotic;	album
	Learning objective- *	Step 2- Activities	drawing,			habitats, videos	Reference		habitat and	
	Different organisms and	in the textbook	experiments			on habitat	books		adaptation, draws	
	their surroundings	Step 3- teacher	explanation ,						labelled diagrams /	
	*to know about habitat	asks question to	writing,						flow charts of	
	and adaptation	the students	reading,						organisms and	
	*Different kinds of	<u>Teacher</u>	technology						processes,	
	vegetation	<u>questions</u>	based							
	*Characteristics of living	What is								
	things	germination?								
	<u>Text Exercises.</u>	What kind of								
	*Question and answer	adaptation								
	* Match the pair* Fill in	happen in desert								
	the blanks *	habitat? Why is								
	True or false	adaptation								
	Notebook work *	important?								
	Answer the following	Step 4 - Teacher								
	* *Question and answer	helps students to								
	Match the pair	carry out various								
	* Fill in the blanks * True	activities								
	or false	discussed in the								
		book.								

14	Lesson No/Name : - 7-	Step1-	Recitation,	farm, plant,	classroom	1) NCERT	12	flowers, on the basis	Make a
	Getting to know the	Explanation of	observation,	hisbiscus flower,		textbook 2)		of observable	drawing of a
	plants	chapter	discussion,	seed		Internet 3)		features, tap and	beautiful
	Learning objective- *	Step 2- Activities	drawing,	germination,		Reference		fibrous	flower and
	Different kinds of plants	in the textbook	experiments	cotton, water		books		roots; plants as herbs,	show
	*Parts of plants and its	Step 3- teacher	explanation ,					shrubs, trees,	different
	detailed functions *Types	asks question to	writing,					creeper, climbers,	parts of the
	of roots	the students	reading,					draws labelled	flower.
	*Parts of flowers	<u>Teacher</u>	technology					diagrams / flow charts	
	Text Exercises.	questions	based					e.g., parts of	
	*Question and answer	1]What are						flowers;	
	* Match the pair* Fill in	shurbs?							
	the blanks *	2]Name the							
	True or false	parts of the							
	Notebook work *	flower? 3) What							
	Answer the following	are fibrous roots							
	* *Question and answer	? Step							
	Match the pair	<u>4 - Teacher helps</u>							
	* Fill in the blanks * True	students to carry							
	or false	out various							
		activities							
		discussed in the							
		book.							

15	Lesson No/Name : - 8-	Step1-	Recitation,	paper, scale,	classroom	skeleton	1) NCERT	12	body movements and	
	Body Movements	Explanation of	observation,	skeleton, garden		observation,	textbook 2)		how different animals	
	Learning objective-	chapter	discussion,	and insects		boat making,	Internet 3)		move, draw and label	
	*Human body and its	Step 2- Activities	drawing,			animal	Reference		the joints	
	movements	in the textbook	experiments			observation	books			
	*Different kinds of joints	Step 3- teacher	explanation ,							
	*gait of animals	asks question to	writing,							
	*movement of animals	the students	reading,							
	Text Exercises.	<u>Teacher</u>	technology							
	*Question and answer	<u>questions</u>	based							
	* Match the pair* Fill in	1]What is joint?								
	the blanks *	2]how are joints								
	True or false	necessary? 3)								
	Notebook work *	What is								
	Answer the following	endoskeleton								
	* *Question and answer	Step 4 - Teacher								
	Match the pair	helps students to								
	* Fill in the blanks * True	carry out various								
	or false	activities								
		discussed in the								
		book.								
		Explanation-								

16	Lesson No/Name : -13 -	Step1-	Recitation,	paper, scale,	classroom	skeleton	1) NCERT	12	Does a freely	Make a chart
			observation,	skeleton, garden		observation,	textbook 2)		· · · · · · · · · · · · · · · · · · ·	of different
	Learning objective-	chapter	discussion,	and insects		boat making,	Internet 3)		align in a particular	types of
	*Discovery of Magnets	Step 2- Activities	drawing,			animal	Reference		direction? measures	magnet
	*Magnetic and non	in the textbook	experiments			observation	books		physical quantities	
	magnetic materials	Step 3- teacher	explanation ,						and expresses	
	*poles of magnet	asks question to	writing,						in SI units, e.g., length	
	*finding direction	the students	reading,							
	*making own magnet	<u>Teacher</u>	technology							
	Text Exercises.	<u>questions</u>	based							
	*Question and answer	1]What are								
	* Match the pair* Fill in	shurbs?								
	the blanks *	2]Name the								
	True or false	parts of the								
	Notebook work *	flower? 3) What								
	Answer the following	are fibrous roots								
	* *Question and answer	? Step								
	Match the pair	<u>4 - Teacher helps</u>								
	* Fill in the blanks * True	students to carry								
	or false	out various								
		activities								
		discussed in the								
		book.								