

Espalier-The Heritage School											
Annual Academic Planning (2022-23)											
Grade: VI				Subject : Science							
Sr no	Proposed date	Points to cover	Lesson Plan	Methodology	Teaching Aid	Location	Activities/ Diagram/ Map work	Reff books with pg. no.	No. of lectures	Learning Outcome	Art Integrity
1		<b><u>Lesson No/Name : 1. Food: Where Does it Come from?</u></b> <b><u>Learning objective-</u></b> * Develop conceptual clarity of the chapter *Know about varieties of food and their ingredient. *Know about food habits of different animals. *Understand the importance of balanced diet. *Identify the parts of plants that are edible. <b><u>Text Exercises.</u></b> *Question and answer * Match the pair * Fill in the blanks <b><u>Notebook work</u></b> * Answer the following	<b><u>Step1-</u></b> Read the lesson <b><u>Step 2</u></b> -Visit to field. <b><u>Step 3-</u></b> teacher asks question to the students <b><u>Teacher questions</u></b> 1] What are the different variety of food you eat? 2]What did you eat today? What ingredient are used to make it? 3]Name the parts of plants that are edible? 4] What are Carnivores? Brainstorming Ways to avoid food wastage <b><u>Step 4</u></b> - Teacher helps students to carry out various	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	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	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		<p><b>Lesson No/Name : 4.</b>  <b>Sorting Materials into Groups</b></p> <p><b>Learning objective-</b> * 1. Classify objects around them into similar groups. Define the term transparency.  2. Explain the solubility of objects in water. Identify materials that float in water  3. Distinguish between transparent, translucent and opaque materials..  <b>Text Exercises.</b>  *Question and answer  * Match the pair * Fill in the blanks  * True or false  <b>Notebook work</b> *  Answer the following  * *Question and answer  * Match the pair * Fill in the blanks *  True or false</p>	<p><b>Step1-</b> Read the lesson  <b>Step 2-</b> Collect the objects  <b>Step 3-</b> teacher asks question to the students  <b>Teacher questions</b>  1] What are the objects made of?  2]What are the properties of materials like iron, wood etc ?  3]Do object float and sink? 4] Objects around us and material they are made of.  5] Similarity between different object on basis that they are made of same material.</p>	<p>Recitation, observation, discussion, drawing explanation , writing, reading, technology based</p>	<p>1) Different Materials.  2)Transparent and Opaque material3) Water, salt, sugar 4) Video ( Differen</p>	<p>classroom</p>	<p>Activity to show solubility of solid and liquid in water.  Activity to demonstrate which object floats and sinks in water</p>	<p>1) NCERT textbook 2) Internet 3) Reference books</p>	<p>12</p>	<p>Classify objects around them into similar groups. Define the term transparency. Explain the solubility of objects in water. Identify materials that float in water. Distinguish between transparent, translucent and opaque materials.</p>	
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3		<p><b><u>Lesson No/Name : 10.</u></b></p> <p><b><u>Motion and Measurement of Distances</u></b></p> <p><b><u>Learning objective-</u></b> * describe units of measure Types of motion use measuring tools explain purpose of measuring describe methods of measuring</p> <p><b><u>Text Exercises.</u></b> *Question and answer * Match the pair * Fill in the blanks * True or false</p> <p><b><u>Notebook work</u></b> * Answer the following * *Question and answer * Match the pair * Fill in the blanks * True or false</p>	<p><b><u>Step1-</u></b> Read the lesson</p> <p><b><u>Step 2-</u></b> measure the objects in classroom</p> <p><b><u>Step 3-</u></b> teacher asks question to the students</p> <p><b><u>Teacher questions</u></b> 1] Find the length of the desk 2]100 cm is how many meters? 3]how to measure an curved surface? 4] . <b><u>Step 4 -</u></b> Teacher helps students to carry out various activities discussed in the book.</p> <p><b><u>Explanation-</u></b> *Teacher</p>	<p>Recitation, observation, discussion, drawing, experiments explanation , writing, reading, technology based</p>	<p>rulers, tape measures, meter sticks,paper clips,yarn,counting cubes,thermometer,ounce and pound scales, video on motion</p>	<p>classroom</p>	<p>Measurement of desk and different motions 2) Video watching</p>	<p>1) NCERT textbook 2) Internet 3) Reference books</p>	<p>12</p>	<p>measures physical quantities and expresses in SI units, e.g., length motion as rectilinear, circular, periodic etc.</p>	<p>Draw a map of your room, roll a ball on the floor. In your map mark the points where the ball started and where it stopped. Show also the path it moved along.</p>
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4	<p><b>Lesson No/Name : 14- Water</b></p> <p><b>Learning objective- *</b></p> <p>Calculate how much water we use on a daily basis</p> <p>Identify the sources of fresh drinking water</p> <p>Explain, using experiments, why drinking salt water is bad for us</p> <p>Convert salt water into fresh drinking water</p> <p>Discuss the problem of water shortage in Delhi</p> <p>Collaborate to find solutions for the water shortage problem</p> <p>Describe the water cycle and explain how clouds are formed</p> <p>Reverse engineer to find how fresh drinking water gets to our homes</p> <p><b>Text Exercises.</b></p> <p>*Question and answer</p>	<p><b>Step1-</b> Read the lesson</p> <p><b>Step 2-</b> Measure usage of water</p> <p><b>Step 3-</b> teacher asks question to the students</p> <p><b>Teacher questions</b></p> <p>1] How much water used for brushing teeth</p> <p>2]100 cm is how many meters?</p> <p>3]how to measure an curved surface?</p> <p>4] . <b>Step 4 -</b></p> <p>Teacher helps students to carry out various activities discussed in the book.</p> <p><b>Explanation-</b></p> <p>*Teacher explains water</p>	<p>Recitation, observation, discussion, drawing, experiments explanation , writing, reading, technology based</p>	<p>measurement cylinder and jars, video on water cycle</p>	<p>classroom</p>	<p>Measurement of liquids 2) Video watching</p>	<p>1) NCERT textbook 2) Internet 3) Reference books</p>	<p>8</p>	<p>Water cycle, storage of water, fresh water and consumption, water shortage and solution</p>	<p>water cycle song, write slogans of your own on "save water"</p>
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5		<p><b>Lesson No/Name : - 2</b></p> <p><b>Components of Food</b></p> <p><b>Learning objective-</b> *</p> <p>Nutrients of the food</p> <p>*What different food item contains      *Test for Starch, protein and fats      *Deficiency Diseases</p> <p>*Balanced diet and Food pyramid</p> <p><b>Text Exercises.</b></p> <p>*Question and answer</p> <p>* Match the pair* Fill in the blanks      *</p> <p>True or false</p> <p><b>Notebook work</b> *</p> <p>Answer the following</p> <p>* *Question and answer Match the pair</p> <p>* Fill in the blanks * True or false</p>	<p><b>Step1-</b></p> <p>Explanation of chapter</p> <p><b>Step 2-</b> Activities in the textbook and making food pyramid</p> <p><b>Step 3-</b> teacher asks question to the students</p> <p><b>Teacher questions</b></p> <p>1] What is balanced diet?</p> <p>2]What are nutrients 3]Why are deficiency diseases caused</p> <p><b>Step 4 -</b> Teacher helps students to carry out various activities discussed in the book.</p> <p><b>Explanation-</b></p>	<p>Recitation, observation, discussion, drawing, experiments explanation , writing, reading, technology based</p>	<p>caustic soda, copper sulphate, iodine, water, test tubes, tissue paper, food items (dal, rice flour, groundnut)</p>	<p>classroom</p>	<p>testing of components and watching video</p>	<p>1) NCERT textbook 2) Internet 3) Reference books</p>	<p>10</p>	<p>conducts simple investigations to seek answers to queries, e.g., What are the food nutrients present in animal fodder? relates processes and phenomenon with causes, e.g., deficiency diseases with diet;</p>	<p>Chart making- Fats, starch , proteins . Write names or draw pictures of food stuffs under each category.</p>
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6		<b>Lesson No/Name : - 5- Separation of Substances</b> <b>Learning objective-</b> * Methods of separation *Necessity of Separation *More than one method of separation <b>Text Exercises.</b> *Question and answer * Match the pair* Fill in the blanks * True or false <b>Notebook work</b> * Answer the following * *Question and answer Match the pair * Fill in the blanks * True or false	<b>Step1-</b> Explanation of chapter <b>Step 2-</b> Activities in the textbook <b>Step 3-</b> teacher asks question to the students <b>Teacher questions</b> 1] Why is separation important? 2]How is evaporation done? 3]What is filtration? <b>Step 4 -</b> Teacher helps students to carry out various activities discussed in the book. <b>Explanation-</b>	Recitation, observation, discussion, drawing, experiments explanation , writing, reading, technology based	Salt, sugar, water, soil, wheat grains, burner, filter paper, etc	classroom	dissolution, sedimentation, filtration, winnowing	1) NCERT textbook 2) Internet 3) Reference books	12	separating materials, exhibits values of honesty, objectivity, cooperation, freedom from fear and prejudices.	sieve the flour to separate coarse flour from it.
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7	<p><b>Lesson No/Name : - 11- Light, Shadows and Reflection</b></p> <p><b>Learning objective- *</b> Concept of Translucent, transparent and opaque *Shadows and how are they formed *Pinhole camera *Light travels in straight line *Mirrors and its types *Reflection</p> <p><b>Text Exercises.</b> *Question and answer * Match the pair* Fill in the blanks *</p> <p>True or false</p> <p><b>Notebook work *</b> Answer the following * *Question and answer Match the pair * Fill in the blanks * True or false</p>	<p><b>Step1-</b> Explanation of chapter</p> <p><b>Step 2-</b> Activities in the textbook</p> <p><b>Step 3-</b> teacher asks question to the students</p> <p><b>Teacher questions</b> 1]What is light? 2]Name few opaque material? 3]What is reflection?</p> <p><b>Step 4 -</b> Teacher helps students to carry out various activities discussed in the book.</p> <p><b>Explanation-</b> *Teacher</p>	<p>Recitation, observation, discussion, drawing, experiments explanation , writing, reading, technology based</p>	<p>mirror, paper, plastic sheet, torch, cardboard box, pipe, comb, objects etc</p>	<p>classroom</p>	<p>shadow experiment, pinhole camera making, reflection test</p>	<p>1) NCERT textbook 2) Internet 3) Reference books</p>	<p>12</p>	<p>constructs models using materials from surroundings and explains their working, e.g., pinhole camera, periscope, electric torch, etc. formation of shadows; reflection of light from plane mirror</p>	<p>Shadows of animals hidden in your hand.</p>
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8		<b>Lesson No/Name : - 12- Electricity and Circuits</b> <b>Learning objective-</b> * to know Electric cell *to know the Flow of electricity *to know closed and open circuit *to know about electric conductors and insulators <b>Text Exercises.</b> *Question and answer * Match the pair* Fill in the blanks * True or false <b>Notebook work</b> * Answer the following * *Question and answer Match the pair * Fill in the blanks * True or false	<b>Step1-</b> Explanation of chapter <b>Step 2-</b> Activities in the textbook <b>Step 3-</b> teacher asks question to the students <b>Teacher questions</b> 1]What is electricity 2]What is a closed circuit? 3]Why is insulation necessary? <b>Step 4 -</b> Teacher helps students to carry out various activities discussed in the book. <b>Explanation-</b> *Teacher	Recitation, observation, discussion, drawing, experiments explanation , writing, reading, technology based	bulb, wires, switch, pastic, pin, scissors, electric current, batteries, cell etc	classroom	making circuit, insulators and conductors differentiation test	1) NCERT textbook 2) Internet 3) Reference books	14	classifies materials into transparent, translucent and opaque, differentiate electrical conductors and insulators; on the basis of their properties, structure and functions	Draw a dry cell and label it
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9	<p><b><u>Lesson No/Name : - 15- Air Around Us Learning objective-</u></b> * to know air occupies space  *to know content of air  *soil has air</p>	Project based chapter: Small experiments on air like air has mass, making windmill, air occupies space, air has oxygen, balloon car etc	1) NCERT textbook 2) Internet 3) Reference books	8	<p>variations in composition of air; exhibits creativity in designing, planning, making use of available resources, etc.</p> <ul style="list-style-type: none"> <li>• exhibits values of honesty, objectivity, cooperation, freedom from fear and prejudices.</li> </ul>	What's in the air song,
10	<p><b><u>Lesson No/Name : - 16- Garbage in Garbage out- Learning objective-</u></b>* to know how to deal with garbage  *to know about vermicompost  *recycling of paper  *Plastic is a boon or a curse</p>	Project based chapter: Vermicompost, PPT by students, garbage separation and awareness about it, composting, recycling of paper and plastic awareness	1) NCERT textbook 2) Internet 3) Reference books	8	<p>exhibits creativity in designing, planning, making use of available resources, etc.</p> <ul style="list-style-type: none"> <li>• 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.</li> </ul>	Make any thing from scratch( Brst from Waste)

11		<p><b>Lesson No/Name : - 3- Fibre to Fabric</b></p> <p><b>Learning objective-</b> * to know Variety of Fabrics *to know different plant fibres *Spinning of cotton yarn *to know about knitting *to know history of clothing material</p> <p><b>Text Exercises.</b> *Question and answer * Match the pair* Fill in the blanks * True or false</p> <p><b>Notebook work</b> * Answer the following * *Question and answer Match the pair * Fill in the blanks * True or false</p>	<p><b>Step1-</b> Explanation of chapter <b>Step 2-</b> Activities in the textbook <b>Step 3-</b> teacher asks question to the students <b>Teacher questions</b> 1]What are fabrics 2]What are sources of fibres 3) How make fabric out of yarn ? <b>Step 4 -</b> Teacher helps students to carry out various activities discussed in the book. <b>Explanation-</b> *Teacher</p>	<p>Recitation, observation, discussion, drawing, experiments explanation , writing, reading, technology based</p>	<p>cotton balls, spinning, charka, knitting needles, scissor and paper (2 different colours)</p>	<p>classroom</p>	<p>knitting and apinning of charka</p>	<p>1) NCERT textbook 2) Internet 3) Reference books</p>	<p>12</p>	<p>separating materials; selecting season appropriate fabrics, plant fibres, flowers, on the basis of observable features, i.e., appearance, texture, function, aroma, etc. exhibits creativity in designing, planning, making use of available resources, etc. • exhibits values of honesty, objectivity, cooperation, freedom from fear and prejudices.</p>	<p>Collect unused cloth pieces and make a handkerchief out of it</p>
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12		<p><b>Lesson No/Name : - 6</b>  <b>Changes around Us</b></p> <p><b>Learning objective-</b> * to know about reversible and irreversible changes  *to know about chemical and physical changes  *Concept of expansion, evaporation, condensation and contraction</p> <p><b>Text Exercises.</b>  *Question and answer  * Match the pair* Fill in the blanks *  True or false</p> <p><b>Notebook work</b> *  Answer the following  * *Question and answer  Match the pair  * Fill in the blanks * True or false</p>	<p><b>Step1-</b>  Explanation of chapter  <b>Step 2-</b> Activities in the textbook  <b>Step 3-</b> teacher asks question to the students  <b>Teacher questions</b>  1)Can ice can change its state?  2)What is reversible change? 3) Does things change form after mixing ?  <b>Step 4 -</b> Teacher helps students to carry out various activities discussed in the book.</p>	<p>Recitation, observation, discussion, drawing, experiments explanation , writing, reading, technology based</p>	<p>paper, dough, candle, burner etc</p>	<p>classroom</p>	<p>kneading of dough, making aeroplane, burning of candle, melting of ice etc.</p>	<p>1) NCERT textbook 2) Internet 3) Reference books</p>	<p>10</p>	<p>classifies materials, materials as soluble, insoluble, changes as can be reversed and cannot be reversed; Can all physical changes be reversed?</p>	<p>Learn from your mother process of making curd from milk.</p>
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13		<p><b>Lesson No/Name : - 9- The Living organisms and their surroundings</b></p> <p><b>Learning objective- *</b></p> <p>Different organisms and their surroundings</p> <p>*to know about habitat and adaptation</p> <p>*Different kinds of vegetation</p> <p>*Characteristics of living things</p> <p><b>Text Exercises.</b></p> <p>*Question and answer</p> <p>* Match the pair* Fill in the blanks *</p> <p>True or false</p> <p><b>Notebook work *</b></p> <p>Answer the following</p> <p>* *Question and answer</p> <p>Match the pair</p> <p>* Fill in the blanks * True or false</p>	<p><b>Step1-</b> Explanation of chapter</p> <p><b>Step 2-</b> Activities in the textbook</p> <p><b>Step 3-</b> teacher asks question to the students</p> <p><b>Teacher questions</b></p> <p>What is germination?</p> <p>What kind of adaptation happen in desert habitat? Why is adaptation important?</p> <p><b>Step 4 -</b> Teacher helps students to carry out various activities discussed in the book.</p>	<p>Recitation, observation, discussion, drawing, experiments explanation , writing, reading, technology based</p>	<p>soil, animal models, seeds, water</p>	<p>classroom</p>	<p>Simon says, germination, create various habitats, videos on habitat</p>	<p>1) NCERT textbook 2) Internet 3) Reference books</p>	<p>10</p>	<p>components of habitat as biotic and abiotic; habitat and adaptation, draws labelled diagrams / flow charts of organisms and processes,</p>	<p>Make a habitat album</p>
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14		<p><b>Lesson No/Name : - 7- Getting to know the plants</b></p> <p><b>Learning objective- *</b>            Different kinds of plants            *Parts of plants and its detailed functions *Types of roots            *Parts of flowers  <b>Text Exercises.</b>            *Question and answer            * Match the pair* Fill in the blanks *            True or false  <b>Notebook work</b> *            Answer the following            * *Question and answer            Match the pair            * Fill in the blanks * True or false</p>	<p><b>Step1-</b>            Explanation of chapter  <b>Step 2-</b> Activities in the textbook  <b>Step 3-</b> teacher asks question to the students  <b>Teacher questions</b>            1]What are shrubs?            2]Name the parts of the flower? 3) What are fibrous roots ?  <b>Step 4 -</b> Teacher helps students to carry out various activities discussed in the book.</p>	Recitation, observation, discussion, drawing, experiments explanation , writing, reading, technology based	farm, plant, hisbiscus flower, seed germination, cotton, water	classroom		1) NCERT textbook 2) Internet 3) Reference books	12	flowers, on the basis of observable features, tap and fibrous roots; plants as herbs, shrubs, trees, creeper, climbers, draws labelled diagrams / flow charts e.g., parts of flowers;	Make a drawing of a beautiful flower and show different parts of the flower.
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15		<b>Lesson No/Name : - 8- Body Movements</b> <b>Learning objective-</b> *Human body and its movements *Different kinds of joints *gait of animals *movement of animals <b>Text Exercises.</b> *Question and answer * Match the pair* Fill in the blanks * True or false <b>Notebook work</b> * Answer the following * *Question and answer Match the pair * Fill in the blanks * True or false	<b>Step1-</b> Explanation of chapter <b>Step 2-</b> Activities in the textbook <b>Step 3-</b> teacher asks question to the students <b>Teacher questions</b> 1)What is joint? 2)how are joints necessary? 3) What is endoskeleton <b>Step 4 -</b> Teacher helps students to carry out various activities discussed in the book. <b>Explanation-</b>	Recitation, observation, discussion, drawing, experiments explanation , writing, reading, technology based	paper, scale, skeleton, garden and insects	classroom	skeleton observation, boat making, animal observation	1) NCERT textbook 2) Internet 3) Reference books	12	body movements and how different animals move, draw and label the joints	
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16		<b>Lesson No/Name : -13 - Fun with Magnets</b> <b>Learning objective-</b> *Discovery of Magnets *Magnetic and non magnetic materials *poles of magnet *finding direction *making own magnet <b>Text Exercises.</b> *Question and answer * Match the pair* Fill in the blanks * True or false <b>Notebook work</b> * Answer the following * *Question and answer Match the pair * Fill in the blanks * True or false	<b>Step1-</b> Explanation of chapter <b>Step 2-</b> Activities in the textbook <b>Step 3-</b> teacher asks question to the students <b>Teacher questions</b> 1)What are shurbs? 2)Name the parts of the flower? 3) What are fibrous roots ? <b>Step 4 -</b> Teacher helps students to carry out various activities discussed in the book.	Recitation, observation, discussion, drawing, experiments explanation , writing, reading, technology based	paper, scale, skeleton, garden and insects	classroom	skeleton observation, boat making, animal observation	1) NCERT textbook 2) Internet 3) Reference books	12	Does a freely suspended magnet align in a particular direction? measures physical quantities and expresses in SI units, e.g., length	Make a chart of different types of magnet
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