

## VACATION ASSIGNMENTS - SCIENCE

STD 1	<p>Leaf Printing Activity 🌿</p> <p>Materials: Leaf, paint or watercolour, paper</p> <p>Steps: Pick a leaf from the garden. Apply paint or watercolour on one side of the leaf. Place the painted side on the paper and press it gently. Carefully lift the leaf to see the print. Use the leaf prints to create beautiful designs. ( 2 or 3 )</p>
STD 2	<p>Nature Care Project Do three activities to care for nature: Water a plant Feed birds Save water Assignment work: Draw or paste pictures of the activities done and write one sentence about each.</p>
STD 3	<p>Activity: Create a simple water filter using a plastic bottle, sand, gravel, and charcoal. Observe and record the changes in water clarity of muddy water as it passes through each layer.</p> <p>Questions to answer: What materials did you use to make the water filter? How did the water change as it passed through each layer? What is the purpose of each material in the filter? Is the filtered water safe to drink? Why or why not?</p> <p>Submission: Write a short report or draw a picture of your experiment, and include your answers to the questions above in an A4 size paper.</p>
STD 4	<p>Bird Watching Diary</p> <p>Observe the birds around your house for two weeks and keep a bird watching diary. Identify the birds you see and record details such as the name of the bird, its colour, type of beak, type of feet, food habits, and the time when you observed it. Prepare a brief description of each bird based on your observations. Draw or paste pictures of the birds in your diary</p>
STD 5	<p>Collect Temperature Data for 5 days, note the daily temperature of your area (from a thermometer, TV weather report, or newspaper)</p> <p>Task Write the highest temperature and lowest temperature recorded in the five days. Attach or draw one picture showing how temperature is measured (thermometer).</p>

	<b>PHYSICS</b>	<b>CHEMISTRY</b>	<b>BIOLOGY</b>
STD 6	<p>1. Draw and colour any one constellation and write a few sentences about it.</p> <p>2. Imagine you are travelling in a spaceship and seeing the Earth from space. Write 3–4 sentences about what you think you would see.</p>	<p>Chemistry in Our Kitchen</p> <p>List 8–10 substances found in the kitchen (salt, sugar, baking soda, vinegar, turmeric, milk, oil, etc.).</p> <p>Write their uses. Study their properties - appearance, solubility and transparency.</p> <p>The assignment should be handwritten and well presented.</p>	<p>Prepare a travelogue (Write the travelogue as daily diary entries) based on any one place you have visited or would like to explore. Describe the habitat, focusing on the flora (plants) and fauna (animals) found there. Include details about the climate, environment, and unique features of the place.</p> <p>Collect and attach relevant pictures of the plants, animals, and surroundings to support your description.</p>
STD 7	<p>Day Distance Walked (m) Time Taken (s) Speed (m/s)</p> <p>1</p> <p>2</p> <p>3</p> <p>Draw a distance - Time graph for each day and Speed time graph from the data. Identify the motion as Uniform or Non Uniform</p>	<p>Prepare indicators from plants. Experiment: Use extracts of hibiscus (china rose), turmeric, beetroot, or red cabbage and test them with:</p> <p>Lemon juice Vinegar Soap solution Baking soda solution Soil sample.</p>	<p>Transpiration Experiment Observes how plants release water. Activity: Cover a leafy twig of a potted plant with a transparent plastic bag and tie it. Report: Observe the droplets after a few hours, photograph the steps, and explain the process of transpiration and its importance.</p>

		<p>Special feature: Make a colour change chart.</p> <p>Assignment must be hand written and well presented</p>	
STD8	<p>Physics in Daily Life Write 1–2 pages on how physics concepts (force, friction, sound, electricity) are used in daily life. Add pictures/examples.</p>	<p>Elements Collect information about ten elements (metals and non-metals) and make a scrapbook. Include the following details about each element:</p> <ol style="list-style-type: none"> <li>i. Name and symbol of the element.</li> <li>ii. Physical state and appearance.</li> <li>iii. Melting and boiling point.</li> <li>iv. Uses in our day-to-day life.</li> <li>v. Interesting facts about them.</li> </ol> <p>The assignment should be handwritten and well-presented.</p>	<p>Food and Nutrition Study - File work. Write a short paragraph explaining the importance of food in our lives. Present the five main nutrients—carbohydrates, proteins, fats, vitamins, and minerals—and their functions in the body in a neat tabular form. Provide a detailed description of a balanced diet and prepare a balanced diet chart for a teenager for one day. Also write briefly about any three deficiency diseases and mention the nutrients whose lack causes them.</p> <p>Present your work neatly with suitable headings</p>