

**LOVE DALE CENTRAL SCHOOL, BELAGAVI**

**PEDAGOGICAL STRATEGIES 2021-22**

**SUBJECT : SCIENCE**

**CLASS: VII**

<b>SL.NO</b>	<b>TOPIC</b>	<b>LEARNING OUTCOMES</b>	<b>ACTIVITY</b>
1	Nutrition in plants	<ol style="list-style-type: none"><li>1. Distinguish between autotrophic and heterotrophic mode of nutrition .</li><li>2. List and explain the conditions necessary for photosynthesis.</li></ol>	<ol style="list-style-type: none"><li>1. To show that leaves contain a starch.</li><li>2. To draw the diagram of stomata.</li></ol>
2	Nutrition in Animals	<ol style="list-style-type: none"><li>1. List and explain steps of Nutrition</li><li>2. Describe nutrition in humans</li><li>3. Describe nutrition in ruminants.</li></ol>	<ol style="list-style-type: none"><li>1. To make a model of human digestive system using modeling clay.</li><li>2. To study and observe the effect of saliva on food.</li></ol>
3	Heat and Temperature	<ol style="list-style-type: none"><li>1. Explain the effects of heat</li><li>2. Describe different temperature scales and types of thermometers.</li><li>3. Distinguish between conduction ,convection and radiation.</li></ol>	<ol style="list-style-type: none"><li>1. To show conduction in solids .</li><li>2. To show convection in liquids.</li></ol>
4	Soil	<ol style="list-style-type: none"><li>1. Explain weathering and describe the factors that cause it.</li><li>2. Evaluate the properties of soil through experiments.</li><li>3. List the importance and methods of soil conservation</li></ol>	<ol style="list-style-type: none"><li>1. To diagrammatically represent soil profile.</li></ol>
5	Respiration	<ol style="list-style-type: none"><li>1. Outline what respiration is and what happens during respiration?</li><li>2. Describe respiration in humans.</li><li>3. Differentiate between Aerobic and Anaerobic Respiration</li></ol>	<ol style="list-style-type: none"><li>1. To draw, label and explain the parts of human respiratory system</li></ol>
6	Motion and time	<ol style="list-style-type: none"><li>1. Distinguish between different types of motion.</li><li>2. Describe the history and present of measuring time.</li><li>3. Calculate speed</li><li>4. Plot distance –time graph</li></ol>	<ol style="list-style-type: none"><li>1. To plot distance-Time graph for uniform and non-uniform motion.</li></ol>
7	Forest: Our lifeline	<ol style="list-style-type: none"><li>1. Explain importance of forests and conservation of forests</li><li>2. Describe food chains and food webs</li></ol>	<ol style="list-style-type: none"><li>1. To list the steps of conservation of forests</li></ol>
8	Physical and Chemical changes	<ol style="list-style-type: none"><li>1. Differentiate between physical and chemical changes.</li><li>2. Explain chemical symbols, formulae, reactions and equations.</li><li>3. Determine the process of crystallization</li></ol>	<ol style="list-style-type: none"><li>1. To write examples and equations for different chemical reactions.</li><li>2. To show that burning of magnesium produces magnesium oxide.</li></ol>

9	Acids , Bases and salts	<ol style="list-style-type: none"> <li>1. List properties and uses of Acids and Bases.</li> <li>2. Explain nature of salt .</li> <li>3. Define and describe different types of indicators.</li> </ol>	<ol style="list-style-type: none"> <li>1. To prepare china rose indicator and test with an acid and base.</li> <li>2. To identify the given substance is an acid or base.</li> </ol>
10	Reproduction in plants	<ol style="list-style-type: none"> <li>1. Identify the different ways of vegetative propagation</li> <li>2. Explain sexual reproduction</li> </ol>	<ol style="list-style-type: none"> <li>1. Reproductive parts of flower.(To draw and observe)</li> </ol>
11	Transportation in plants and animals	<ol style="list-style-type: none"> <li>1. Describe the circulatory system in humans.</li> <li>2. Describe excretory system in humans.</li> <li>3. Describe transport system in plants.</li> </ol>	<ol style="list-style-type: none"> <li>1. To draw labeled diagram of human excretory system.</li> <li>2. To observe the process of osmosis.</li> </ol>
12	Electric currents and circuits.	<ol style="list-style-type: none"> <li>1. Describe an electric circuit and its components.</li> <li>2. Explain heating and magnetic effects of electric current</li> <li>3. Describe the working of an electric bell.</li> </ol>	<ol style="list-style-type: none"> <li>1. To set up an simple electric circuit.</li> </ol>
13	Light	<ol style="list-style-type: none"> <li>1. Explain rectilinear propagation of light.</li> <li>2. Discuss lenses and images formed by them.</li> <li>3. Explain how a spectrum is formed.</li> </ol>	<ol style="list-style-type: none"> <li>1. To observe the path of light using candle, straight plastic tube and bent plastic tube.</li> <li>2. To prepare a model of Newton's disc.</li> </ol>
14	Waste water Management	<ol style="list-style-type: none"> <li>1. Describe waste water and list its sources.</li> <li>2. Explain the importance of sanitization ,and how it is related to diseases .</li> </ol>	<ol style="list-style-type: none"> <li>1. To find out how water and sewage is disposed off in your house or apartment complex.</li> </ol>

**Subject Teacher's SIGN**

**HOD SIGN**

**PRINCIPAL SIGN**