

**DIRECTORATE OF EDUCATION, GNCT of Delhi**  
**ANNUAL SYLLABUS (2024-25)**

**CLASS: 7, SUBJECT: SCIENCE**

<b>THEME</b>	<b>CONTENT AND ITS MAPPING WITH PREVIOUS CLASSES</b>	<b>SUGGESTIVE LEARNING OUTCOMES</b>	<b>SUGGESTIVE ACTIVITIES AND RELATED WORKSHEET</b>
<b>Food</b>	<p><u><b>CLASS VI:</b></u></p> <p><b>*Ch-4: Getting to know plants</b></p> <p><b>*Ch -6: Living organisms: The characteristics and habitat.</b></p> <p><u><b>CLASS VII:</b></u></p> <p><b>Ch-1: Nutrition in Plants</b></p>	<ul style="list-style-type: none"> <li>• Identify different organisms on the basis of mode of nutrition.</li> <li>• Write word equation for photosynthesis</li> <li>• Explain process of photosynthesis in plants with the help of labelled diagram.</li> <li>• Conduct investigations to seek the answer that leaves other than green also carry photosynthesis</li> <li>• Give examples of heterotrophs.</li> </ul>	<ol style="list-style-type: none"> <li>1.To show light is essential for photosynthesis.</li> <li>2.Collect leaves of different Colours – check that photosynthesis also occur in these coloured leaves.</li> <li>3.Growing fungi on a bread. Observe the patches on the bread under a microscope or with the help of magnifying glass and write the observation in your note book.</li> </ol> <p><b>Class VI</b> ❖ <b>Worksheet no.:26-28 and 30,45,46</b></p> <p><b>Class VII</b> ❖ <b>Worksheet no.: 15-20</b></p>
<b>Moving things , People and Ideas</b>	<p><u><b>CLASS VI:</b></u></p> <p><b>*Ch-7: Motion and Measurement of distance</b></p> <p><u><b>CLASS VII:</b></u></p> <p><b>Ch- 9: Motion and Time</b></p>	<ul style="list-style-type: none"> <li>• Observe and analyse motion as slow/fast.</li> <li>• Analyse the consistency of time period of pendulum etc.</li> <li>• Measure and calculate speed of moving objects ,</li> <li>• Measure the physical quantities and express their SI units.</li> <li>• Plot and interpret distance-time graph.</li> </ul>	<ol style="list-style-type: none"> <li>1. Observing the motion (slow or fast) of common objects.</li> <li>2. Measure the distance covered by objects moving (with in school) in a given time and calculating their speeds.</li> <li>3. Plot distance vs. time graph for uniform motion.</li> <li>4. Measure the time taken by a moving object (toy cars) to cover a given distance and calculate their speeds.</li> <li>5. To observe the motion of a simple pendulum and its time period</li> </ol> <p><b>Class VII</b></p>

			❖ <b>Worksheet no.: 39-42</b>
	<p><b><u>CLASS VI:</u></b> *Ch -9: Electricity and Circuits</p> <p><b><u>CLASS VII:</u></b> Ch -10 : Electric Current and its Effects</p>	<ul style="list-style-type: none"> <li>• Differentiate materials on the basis of conductivity like good and bad conductor of electricity.</li> <li>• Understand and relate the process of heating with electric current.</li> <li>• Demonstrate the magnetic effects of electric current .</li> <li>• Make electric circuit and Draw its labelled diagram by using symbols of electric components.</li> <li>• Apply learning of scientific concepts in daily life like connecting two or more cells in proper order in devices etc.</li> <li>• Make the model of electromagnet from the resources available in their surroundings with electric current.</li> </ul>	<ol style="list-style-type: none"> <li>1.To make a simple electric circuit and draw its Labelled diagram.</li> <li>2. To make a battery by using three electric cells.</li> <li>3.To demonstrate             <ol style="list-style-type: none"> <li>a. heating effect of electric current.</li> <li>b. Magnetic effect of current.</li> </ol> </li> <li>4. To make a model of electromagnet .</li> </ol> <p><b>Class VI:</b> ❖ <b>Worksheet no.:18- 21</b></p>
<p>➤ <b>The above mentioned syllabus must be completed by September 13, 2024.</b></p> <p>➤ <b>Revision of syllabus for Mid Term Examination.</b></p>			
<b>MID TERM EXAMINATION</b>			
<b>THEME</b>	<b>CONTENT AND ITS MAPPING WITH PREVIOUS CLASSES</b>	<b>SUGGESTIVE LEARNING OUTCOMES</b>	<b>SUGGESTIVE ACTIVITIES</b>
	<b><u>*CLASS VI:</u></b>		<ol style="list-style-type: none"> <li>1.Effect of saliva on starch.</li> <li>2.Study with suitable learning materials/aids</li> </ol>

<b>Food</b>	<p><b>Ch-1: Components of food</b></p> <p><u><b>CLASS VII:</b></u></p> <p><b>Ch-2 :Nutrition in Animals</b></p>	<ul style="list-style-type: none"> <li>• Identify types of teeth</li> <li>• Differentiates organisms on the basis of the process of digestion ,</li> <li>• Explain process of digestive system in animals and human</li> <li>• Explain the process of digestion in Amoeba.</li> <li>• Draw labelled diagram or flow charts of digestive system in human.</li> </ul>	<p>a.Human Digestive System,  b.Different types of teeth and their arrangement in mouth  c.Movement of the food in the alimentary canal.  d.Digestive system of Ruminant.  e.Permanent slide of Amoeba</p> <p>3.To find the position of taste buds with the help of edible things brought by the students. (Salty, Bitter, Sweet etc.)</p> <p><b>Class VI</b>  ❖ <b>Worksheet no.:10-14,16-17,22-25</b></p> <p><b>Class VII</b>  ❖ <b>Worksheet no.: 8-14.</b></p>
<b>Material</b>	<p><u><b>CLASS VI:</b></u></p> <p><b>*Ch-1: Components of food</b>  (Only Testing part of food components)</p> <p><u><b>CLASS VII:</b></u></p> <p><b>Ch- 4: Acids, Bases and Salts</b></p>	<ul style="list-style-type: none"> <li>• Classify substances as acidic, basic and neutral substances.</li> <li>• Conduct simple investigation like –Extract of coloured flowers be used as acid- base indicator.</li> <li>• Learn to handle experiments with care.</li> <li>• Write word equation for Acid- Base reaction .</li> <li>• Apply learning of scientific concept in day to day life – like dealing with Acidity, treating the stings of ants etc.</li> </ul>	<ol style="list-style-type: none"> <li>1. Testing solutions of common substances like sugar, salt, vinegar, lime juice etc. with indicators like Litmus ,Turmeric , China rose or any other.</li> <li>2. To study neutralisation reaction.</li> <li>3. To prepare a card with Turmeric paste and soap solution.</li> </ol> <p><b>Class VI</b>  ❖ <b>Worksheet no.:10-17 ,22- 25</b></p> <p><b>Class VII:</b>  ❖ <b>Worksheet no.: 43,44</b></p>
<b>Natural Phenomena</b>	<p><u><b>CLASS VI:</b></u></p> <p><b>*Ch-8: Light Shadows and Reflection</b></p>	<ul style="list-style-type: none"> <li>• Identify mirrors and lenses on the basis of their function .</li> </ul>	<ol style="list-style-type: none"> <li>1.Experiment to see the source of light through a straight and bent tube .</li> <li>2.Observation of reflection of light on wall or white paper screen .</li> </ol>

	<b><u>CLASS VII:</u></b> <b>Ch-11: Light</b>	<ul style="list-style-type: none"> <li>• Differentiate images formed by mirrors and lenses on the basis of its properties.</li> <li>• Conduct investigation like—Is white light composed of many colours?</li> <li>• Construct model of Seven colour disc from the resources available in their surroundings.</li> </ul>	3. Images made by different objects and recording the observations. 4. To identify and distinguish among plane, concave and convex mirrors, and also between concave and convex lenses 5. Making a disc with seven colours and observe it when it rotates.  <b>Class VI:</b> ❖ <b>Worksheet no.:32-38</b> <b>Class VII:</b> ❖ <b>Worksheet no.:28-38</b>
<b>How Things Work</b>	<b><u>CLASS VII:</u></b> <b>Ch-5: Physical and Chemical Changes</b>	<ul style="list-style-type: none"> <li>• Classify changes around us in physical and chemical changes.</li> <li>• Write word equation for chemical reactions involve in the chemical change.</li> <li>• Take measures to prevent corrosion by relating cause with its effect.</li> <li>• Apply learning of scientific concepts in day to day life thus preventing corrosion and purify substance by crystallisation.</li> <li>• Describe the cause why iron objects gets corroded, milky water turn white when carbon dioxide gas is passed through it etc.</li> <li>• List out the characteristics help in identifying the change as chemical change.</li> </ul>	1. Activities showing chemical changes like what gets deposited on a Tawa or Kadai when left in a moist state. 2. Experiments involving chemical reactions like rusting of iron, Neutralisation (vinegar and baking soda), Displacement of copper from copper sulphate etc. 3. Make crystals of easily available substances (sugar, salt and copper sulphate). 4. Burning of magnesium ribbon and compare it with original product. ❖ Any other related activities.
<b>Note:-</b> <ul style="list-style-type: none"> <li>➤ <b>The whole syllabus must be completed by 31 January, 2025;</b></li> <li>➤ <b>Annual examination will be based on entire annual syllabus.</b></li> <li>➤ <b>Revision of entire syllabus for Annual Examination.</b></li> </ul>			
<b>Annual Exam 2025</b>			

**Note: The above said syllabus is for assessment purpose only and remaining topics/chapters may be taught as Subject Learning Enrichment.**