

Detailed Contents

Each chapter contains lab activities and exercises for assessment which include the following:

- Answer orally
- Very short answer questions (fill in the blanks, true or false, match the columns, find the odd one, multiple choice questions)
- Long answer questions
- Short answer questions

Chapter	Contents	Do and Learn Tasks
1. Nutrition in Plants	Nutrition Modes of nutrition Nutrition in plants—photosynthesis Heterotrophic nutrition in plants	<ul style="list-style-type: none"> • Web chart • Field trip (Life Skill) • Seminar (Life Skill) • Crossword puzzle
2. Nutrition in Animals	Steps in animal nutrition Nutrition in <i>Amoeba</i> Nutrition in humans Nutrition in grass-eating animals	<ul style="list-style-type: none"> • Class presentations • Field trip (Life Skill) • Crossword puzzle
3. Materials of Daily Use	Wool Silk	<ul style="list-style-type: none"> • Complete the matrix • Research and projects • Group activity • Pair work • Discussion (Value) • Crossword puzzle
4. Heat	Heat: A form of energy Measurement of temperature Thermometer—measuring temperature Clinical thermometer Laboratory thermometer Transfer of heat Modes of transfer of heat Thermos flask	<ul style="list-style-type: none"> • Laboratory experiment • Research and project • Group discussion (Life Skill) • Crossword puzzle
5. Different Kinds of Materials	Acidic substances or acids Basic substances or bases Indicators Neutralization reaction Uses of neutralization reaction in everyday life	<ul style="list-style-type: none"> • Laboratory projects • Library research and project • Group Discussion (Life Skill) • Crossword puzzle
6. How Things React with One Another	Physical change Chemical change Rusting of iron Crystallization	<ul style="list-style-type: none"> • Web chart • Laboratory experiments • Pair work • Group Discussion (Value)
7. Weather, Climate and Adaptations of Animals	Weather Weather conditions Climate Adaptations of animals to climate	<ul style="list-style-type: none"> • Project work • Class presentation (Life Skill) • Group Discussion (Value) • Web chart • Crossword puzzle
8. Soil	Soil and its importance Formation of soil Soil profile Composition of soil Properties of soil Soil and crops Soil erosion	<ul style="list-style-type: none"> • Web chart • Group discussion and project (Life Skill) • Field trip and interview (Life Skill) • Crossword puzzle

9. Respiration in Organisms	<p>Why do living organisms respire? Types of respiration Process of respiration Breathing Human respiratory system Mechanism of breathing in humans Breathing in other animals Respiration in plants</p>	<ul style="list-style-type: none"> • Research and presentation • Group activity (Value) • Crossword puzzle
10. Transportation of Materials	<p>Circulatory system Excretion Transport of substances in plants</p>	<ul style="list-style-type: none"> • Crossword puzzle • Web chart • Activity • Conduct a survey (Life Skill) • Organize a campaign (Value)
11. Reproduction in Plants	<p>Modes of reproduction Asexual reproduction Sexual reproduction Sexual reproduction in plants Dispersal of fruit and seeds</p>	<ul style="list-style-type: none"> • Field trip (Life Skill) • Web chart • Laboratory experiment • Research and project
12. Motion and Time	<p>Slow and fast motion Measurement of time Units of time Speed Measurement of speed</p>	<ul style="list-style-type: none"> • Group activity (Life Skill) • Pair activity (Life Skill) • Debate (Value) • Crossword puzzle
13. Electric Current and Its Effects	<p>Electric circuit Electrical components and their symbols Resistance, conductors and insulators Heating effect of electric current Magnetic effects of electric current</p>	<ul style="list-style-type: none"> • Field trip (Life Skill) • Seminar (Life Skill) • Crossword puzzle
14. Light	<p>Light travels in a straight line Reflection of light Formation of images in spherical mirrors Formation of images in lenses White light consists of seven colours</p>	<ul style="list-style-type: none"> • Crossword puzzle • Paragraph writing (Life Skill) • Making a model
15. Winds, Storms and Cyclones	<p>Air exerts pressure Air pressure reduces when wind speed increases Air expands on heating Generation of wind Types of storms Destruction caused by cyclones Safety measures Weather instruments</p>	<ul style="list-style-type: none"> • Making a model (Life Skill) • Crossword puzzle
16. Scarcity of Water	<p>States of water Availability of water Scarcity of water Effect of water scarcity on plants Depletion of water table Water management</p>	<ul style="list-style-type: none"> • Research and project • Group activity (Life Skill) • Poster competition (Life Skill) • Organize a campaign (Value)
17. Forests	<p>Description of a forest Uses of forests Interdependence of plants and animals Destruction of forests Conservation of forests</p>	<ul style="list-style-type: none"> • Group activities • Seminar (Value) • Crossword puzzle
18. Waste Management	<p>Sewage Wastewater treatment Wastewater treatment plant (WWTP) Better housekeeping practices Sanitation and sewage disposal</p>	<ul style="list-style-type: none"> • Project activity • Organize a campaign (Value)