DETAILED CONTENTS

Each chapter of the book consists of the following exercises in various forms

BE PROMPT
- Filling in the blanks
- True or False
- Multiple choice questions (MCQs)
- Identifying the error(s) in the given statements
- Matching the columns

SHORT AND PRECISE
- Flowcharts
- Giving reasons
- Short answer questions

AT LENGTH
- Explaining the terms
- Differentiating between concepts
- Long answer questions
- Identifying the error(s)

Chapter Name	Details of Contents	Activities	Some More Assessment Tools
4. Water	• OCCURRENCE OF WATER • SOURCES OF WATER—Rainwater, Surface Water, Groundwater • STATES OF WATER—Water Cycle, Change in Density and Volume of Water with Temperature • IMPORTANCE OF WATER • WATER—A UNIVERSAL SOLVENT Solute, Solvent and Solution • POTABLE WATER Diseases Caused by Contaminated Water or Waterborne Diseases • PURIFICATION OF WATER—Sedimentation and Decantation, Loading, Filtration, Chlorination, Boiling, Aeration, Ozonization, Water Purifiers and RO System, Distillation • IMPORTANCE OF WATER FOR SUSTENANCE OF LIFE ON EARTH Need to Conserve Water • WATER POLLUTION— Causes of Water Pollution, Prevention of Water Pollution • FLOODS AND DROUGHTS— Flood, Drought	4.1 To find the water content in different food items 4.2 To show that plants require fresh water 4.3 To study the presence of dissolved impurities in natural water 4.4 To show that ice is lighter than water 4.5 To show that water expands on freezing 4.6 To find application of specific capacity of water and of latent heat of fusion 4.7 To observe the effect of stirring on the formation of a solution 4.8 To observe the effect of size of solute particles on the formation of a solution 4.9 To observe the effect of increase in temperature on the formation of a solution 4.10 To prepare a saturated solution of salt and water 4.11 To separate salt from salt solution by evaporating till the water dries	• Observe and Perform: Observing the image and answering the questions • Apply Your Learning: Questions based on thinking skills • Life Skills: Questions based on life skills (cooperation and working together, concern for others, environmental awareness and problem-solving) • Integrate Your Learning: Integrating learning with Geography and Language • Projects and Activities: Solving a crossword puzzle, conducting a survey, performing an activity, preparing a solution, conducting a class discussion, making a project, creating a presentation on 'Saving Water' and creating a presentation on 'Say No to Water Pollution' • Review Your Learning: Worksheet
5. Air and Atmosphere	• AIR: A MIXTURE OF GASES Properties of Air, Evidence to Confirm that Air is a Mixture • USES OF COMPONENTS OF AIR Oxygen, Nitrogen, Carbon Dioxide, Water Vapour, Dust and Smoke • IMPORTANCE OF AIR Respiration, Combustion or Burning, Similarities between Respiration and Combustion, Differences between Respiration and Combustion • MAINTENANCE OF AIR COMPOSITION IN NATURE • AIR POLLUTION Causes of Air Pollution, Effects of Air Pollution, Measures for Reducing Air Pollution • ATMOSPHERE	5.1 To show that air is present everywhere 5.2 To observe that oxygen supports combustion 5.3 To show that nitrogen does not support burning of candle 5.4 To show that air that we breath out contains carbon dioxide 5.5 To show that air contains water vapour 5.6 To show that air contains dust particles 5.7 To show that soil contains trapped air which is used by the organisms living in soil and by the roots of plants to respire 5.8 To show respiration in plants 5.9 To show that green plants produce oxygen during photosynthesis	• Observe and Perform: Observing the image and answering the questions • Apply Your Learning: Questions based on thinking skills • Life Skills: Questions based on life skills (sensitivity towards environment) • Integrate Your Learning: Integrating learning with Biology and Geography • Projects and Activities: Making a chart and organizing a campaign • Review Your Learning: Worksheet