

5. GETTING TO KNOW PLANTS

74-87

Plants are Living Things ; Parts of a Plant ; Roots : Tap Roots and Fibrous Roots ; Stem ; Leaf : Activities to Show That (i) Leaves Make Food by Photosynthesis (ii) Sunlight is Necessary for Photosynthesis ; Activity to Show Transpiration in Plants ; Venation : Reticulate Venation and Parallel Venation ; Relationship Between Venation and Type of Roots ; Flowers, Fruits and Seeds

6. THE LIVING ORGANISMS AND THEIR SURROUNDINGS

88-113

Living Things and Non-Living Things ; Characteristics of Living Things : Food, Growth, Movement, Response to Stimuli, Respiration, Excretion, Reproduction Definite Life-Span and Cellular Organisation ; Habitat ; Biotic and Abiotic Components ; Adaptations ; Terrestrial Habitats : Deserts, Mountain Regions and Forests (or Grasslands) ; Adaptations in Plants and Animals to Terrestrial Habitats ; Aquatic Habitats : Oceans, Ponds, Lakes and Rivers ; Adaptations in Plants and Animals to Aquatic Habitats ; Aerial Habitats : Adaptations in Birds ; Acclimatisation

7. MOTION AND MEASUREMENT OF DISTANCES

114-131

Motion ; Types of Motion : Rectilinear Motion, Circular Motion, Rotational Motion and Periodic Motion ; Objects Having More Than One Type of Motion ; The Story of Transport ; Distances and Measurement ; Need of Standard Units of Measurement SI Unit of Length ; Measurement of Length ; Length Measuring Devices : Metre Scale (or Ruler) and Measuring Tape ; Precautions in the Measurement of Length To Measure the Length of a Curved Line

8. LIGHT, SHADOWS AND REFLECTIONS

132-150

Sources of Light ; Natural and Man-Made Sources of Light ; Luminous and Non-Luminous Objects ; Transparent, Translucent and Opaque Materials ; Light Travels in Straight Lines ; The Pinhole Camera ; How to Make a Pinhole Camera ; Shadows Reflection of Light and Mirrors ; Image of an Object ; Real Images and Virtual Images ; Characteristics of Image Formed by a Plane Mirror ; Uses of Plane Mirrors Periscope

9. ELECTRICITY AND CIRCUITS

152-167

Electricity : A Clean Form of Energy ; Electricity Runs Many Appliances and Machines ; Electricity is Produced at Power Stations ; Electricity Can be Dangerous ; Safe Source of Electricity : Electric Cell ; Torch Bulb ; Electric Circuits : Open Circuits and Closed Circuits ; Electric Switch ; How to Make a Simple Electric Switch ; Adding Switch to the Electric Circuit ; Torch ; Electric Conductors and Insulators ; Importance of Conductors and Insulators

10. FUN WITH MAGNETS

168-183

Types of Magnets : Bar Magnet, Horseshoe Magnet, U-Shaped Magnet, Cylindrical Magnet (or Rod Magnet), Button Magnet and Ring Magnet ; How Magnets Were Discovered ; Magnetic Materials and Non-Magnetic Materials ; Poles of a Magnet ; Properties of Magnets ; Finding Directions : Compass ; Testing For a Magnet ; Making Your Own Magnet and Compass ; Precautions in Handling Magnets ; How to Store Magnets Properly ; Uses of Magnets

11. SUSTENANCE OF LIFE ON EARTH

184-201

Air : A Mixture of Gases ; Atmosphere ; Composition of Air ; Nitrogen : Required to Make Proteins ; Oxygen : Necessary for Breathing and Burning ; Carbon Dioxide : Needed for Photosynthesis ; Water Vapour : Essential for Water Cycle ; Dust and Smoke : Pollute the Air ; Air (or Oxygen) is Present in Soil and Water ; Uses of Water ; Where do We Get Water From ; Properties of Water ; What if it Rains Heavily : Floods ; What if it Does Not Rain For a Long Period : Drought ; How Can We Conserve Water

INDIA AND SCIENCE

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