OVERVIEW OF SYLLABUS AND SKILLS

| s. No. | Chapter Name | Experiments and Activities | Skills | Values | Cross-curricular Links |
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| 1. | Crop Production and Management Crop Agricultural Practices Preparation of Soil Levelling Sowing Applying Manures and Fertilisers Natural Methods of Replenishing Soil Nutrients Irrigation Protection from Weeds Harvesting Storage Food from Animals | Activities: Map work – mark different crops in different states of India Quiz- Preparation of Soil, Presentation on Ploughing Activity- Float or sink Research on government's initiatives for the betterment of farmers and agricultural output and maintenance Discussion on Green Revolution | Recalling Describing Discussing Creating Interpreting Applying Presenting information Drawing conclusion | Importance of ICAR in Green revolution Appreciate the role of soil health card for the farmers | Geography: Types of crops grown according to seasons Improving the quality of soil of a region |
| 2. | Microorganisms: Friend and Foe Microorganisms Bacteria Agricultural Uses of Bacteria Fungi Algae Protozoa Diseases Caused by Microorganisms Diseases of Humans, Animals and Plants Caused by Microorganisms Food Preservation | Experiments: To prove the presence of microorganisms in soil To observe the action of yeast on flour dough To observe fermentation of sugar by yeast cells Activity: Demonstration of microscope and its parts Group work-Presenting information on Microorganisms Discussion on: Diseases Caused by Microorganisms | Recalling Describing Discussing Creating Interpreting Inferring Applying Presenting information Drawing conclusion | Generate awareness on use of antibiotics Bioremediation as a tool to deal with environmental pollution | Medicine: Diseases caused by microorganisms Environmental chemistry: Uses of microorganisms in making environment pollution free |
| 3. | Conservation of plants and animals Biodiversity Loss of Biodiversity Conserving Biodiversity Success Story: Project Tiger Project Elephant: For India's Heritage Animal Protected Area | Discussion on: Reasons for migration, Case study: Migratory birds and animals Activity: What if (On Deforestation) Activity (Each one, Teach one):Pollution, Natural Disasters, Exotic species Discussion on: Red data book, extinct and endangered species Two-minute talk on conserving Biodiversity Research and collect data on Project Tiger, Project elephant and conservation heroes in India | Recalling Describing Discussing Creating Interpreting Inferring Applying Presenting information Drawing conclusion | | Geography: Flora and fauna of different regions and their conservation Maths: Data on threatened species |