

OVERVIEW OF SYLLABUS AND SKILLS

S. No.	Chapter Name	Experiments and Activities	Skills	Values	Cross-curricular Links
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 - Inferring - 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	- 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