

**LESSON PLAN****SPECIFIC OBJECTIVES**

- The students will learn about
- ✧ soil—an important natural resource
  - ✧ layers, components and types of soil
  - ✧ absorption of water by soil
  - ✧ soil erosion, its causes and effects

**TEACHING AIDS**

Pictures/charts/models/animations on layers of soil; composition of soil; sandy soil, clayey soil, loamy soil; soil erosion; deforestation, etc.

**LESSON PLAN**

- ✧ Teacher will start the chapter by going through the points given in 'Know these points before you start' section.
- ✧ Now, teacher will describe the soil as an important natural resource.
- ✧ Teacher will explain the different layers of soil by demonstrating activity given in the chapter.
- ✧ Teacher will describe the various components of soil.
- ✧ Teacher will demonstrate the presence of air and water in soil with the help of the activities given in the chapter.
- ✧ Now, teacher will ask students to solve Check Point 1.
- ✧ Teacher will describe different types of soil, their features and uses.
- ✧ Teacher will explain absorption of water by the soil and calculation of percolation rate of water in the soil by demonstrating activities given in the chapter.
- ✧ Teacher will ask students to solve Check Point 2.
- ✧ Teacher will discuss soil erosion, its causes and effects.
- ✧ Teacher will explain the need to take care of soil.
- ✧ Now, teacher will ask students to solve Check Point 3.

- ✧ Teacher will make students revise the new terms given under the head 'Know These Terms'.
- ✧ Finally, teacher will help students to solve the questions given in exercises under the head 'Practice Time' and 'Think Zone'.

### BOOST UP

- ✧ Teacher should demonstrate and explain activities given in the chapter.
- ✧ Teacher should discuss the information given under the head 'Something More'.
- ✧ Teacher should discuss the conversation of Annu and Mannu given in between the topics.
- ✧ Teacher should discuss the facts given in the table.
- ✧ Teacher should describe the relation between different types of soil and crops.
- ✧ Students should be encouraged to calculate the amount of water absorbed and the percolation rate of different soil samples.
- ✧ Students should be encouraged to study the layers, components and type of soil in their living areas.

### EXPECTED LEARNING OUTCOMES

The students know about

- ✧ importance of soil.
- ✧ layers, components and types of soil
- ✧ soil erosion, its causes and effects.
- ✧ need to take care of soil.

### EVALUATIVE QUESTIONS

The teacher may ask the following questions for evaluating the understanding of students.

1. Why is soil considered an important natural resource?
2. Name the different layers of soil and mention their characteristics.
3. What is meant by humus?
4. Why are earthworms called friends of farmers?
5. Write some uses of soil.
6. Explain the properties of good soil.
7. How is soil erosion caused?