

LESSON PLAN**SPECIFIC OBJECTIVES**

The students will learn about

- ✧ soil—an important natural resource
- ✧ layers of soil
- ✧ components of soil
- ✧ types of soil
- ✧ uses and properties of soil
- ✧ soils and crops
- ✧ soil erosion and its effects
- ✧ soil pollution

TEACHING AIDS

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

LESSON PLAN

- ✧ The teacher will start the lesson with ‘Science Vocabulary’ section by telling the meaning/definition of new terms which are used in the chapter.
- ✧ Now, the teacher should describe the soil as an important natural resource.
- ✧ The teacher should explain the different layers of soil by demonstrating Activity 2.
- ✧ The teacher should describe the components of soil.
- ✧ The teacher should demonstrate the presence of air and water in soil with the help of Activities 3 and 4.
- ✧ The teacher should describe the different types of soil, their features and uses of soil.
- ✧ Now, teacher should describe various properties of soil.
- ✧ The teacher should explain the calculation of absorption of water by the soil and the percolation rate of water in the soil by demonstrating Activities 5 and 6.
- ✧ The teacher should describe the relation between different types of soil and crops.

- ✧ The teacher should discuss soil erosion and its effects along with soil pollution and need to take care of soil.
- ✧ The teacher should ask the students to solve 'Check Points' 1, 2 and 3.
- ✧ The teacher will help the students to solve the questions given in exercises under the head 'Let's Drill Our Skills' and to complete the flowchart given under the head 'Let's Memorise'.

BOOST UP

- ✧ The teacher may boost up the students to know more about soil by making them to carry out Activity 1 in the class.
- ✧ 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 formation of soil.
- ✧ types of soil and their relation with different types of crops.
- ✧ soil erosion and its effects.
- ✧ causes of soil pollution and 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?