

# Science Booster 8

## 1

## Crop Production

### LESSON PLAN

#### SPECIFIC OBJECTIVES

The students will learn about

- ✧ agriculture and its history
- ✧ crops and crop plants
- ✧ crop seasons in India
- ✧ basic agricultural practices
- ✧ crop improvement and Green Revolution
- ✧ food from animals

#### TEACHING AIDS

**Pictures/charts/models/animations** on some rabi and kharif crops; basic agricultural practices — ploughing, levelling, sowing seeds, transplantation, manuring, traditional and modern methods of irrigation, weeding, harvesting, threshing, grain storage (silos, granaries); mixed cropping; Green Revolution; food items obtained from farm animals.

#### LESSON PLAN

- ✧ The teacher should start the chapter with Gear Up and ask students the questions given in this section.
- ✧ Now, teacher should explain agriculture and its history. Teacher should also explain crops, crop plants and crop seasons in India.
- ✧ The teacher should explain basic agricultural practices, i.e., preparation of soil, selection and sowing of seeds, application of manures and fertilisers, irrigation, weeding, harvesting, threshing and winnowing and finally storage of grains.
- ✧ Teacher should demonstrate Activities 1, 2 and 3 for better understanding.
- ✧ The teacher should also discuss the methods of restoring soil fertility.
- ✧ Now, teacher should discuss Green Revolution, its pioneer, how it was achieved and its aftereffects.

- ✧ Teacher should discuss food from animals and introduce the basic idea of animal husbandry.
- ✧ Students should be asked to solve Check Points 1, 2 and 3.
- ✧ At last, the teacher will sum up the lesson by going through the points given under the head 'Wrap Up Now'.
- ✧ The teacher will help the students to solve all the questions given in exercises under the head 'Practice Time' and will also discuss the topics given under the head 'Formative Tasks'.

### **BOOST UP**

- ✧ The teacher should give Activity 4 as home assignment and discuss the results in class.
- ✧ The teacher should encourage the students to collect pictures of different crops, agricultural tools, seed, etc.

### **EXPECTED LEARNING OUTCOMES**

The students about know

- ✧ brief history of agriculture, farming and animal husbandry.
- ✧ crops and the crops plants.
- ✧ fundamental agricultural practices.
- ✧ methods of sowing seeds.
- ✧ traditional and modern methods of irrigation.
- ✧ crop improvement and Green Revolution, its gains and undesirable effects.

### **EVALUATIVE QUESTIONS**

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

1. What is meant by agriculture?
2. What do you mean by tilling?
3. What is essential for getting a better yield of crops?
4. Write the differences between manures and fertilisers.
5. Mention the traditional methods of irrigation.
6. Mention the methods adopted for removing weeds from a crop field.
7. Define waterlogging.