

New Science Power 8

Crop Production

1

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

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.

LESSON PLAN

- ✧ Teacher will start the chapter by going through the points given in 'Know these points before you start' section.
- ✧ Now, teacher will explain the term agriculture and its history.
- ✧ With the help of suitable teaching aids, teacher will explain crops, crop plants and crop seasons in India.
- ✧ Teacher will 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 will ask students to solve Check Points 1, 2, 3, 4 and 5 given in the chapter among the topics.

- ✧ Now, teacher will discuss Green Revolution, its pioneer, how it was achieved and its after effects.
- ✧ Teacher will discuss food from animals and introduce the basic idea of animal husbandry.
- ✧ Teacher will ask students to solve Check Points 1, 2 and 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 encourage 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, various agricultural implements, etc.
- ✧ benefits and harms of chemical fertilisers, pesticides, etc.
- ✧ traditional and modern methods of irrigation.
- ✧ methods of crop improvement.
- ✧ 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.
8. What is Green revolution?