

LESSON PLAN**SPECIFIC OBJECTIVES**

The students will learn about

- ✧ air is present everywhere
- ✧ atmosphere
- ✧ composition (components) of air
- ✧ how oxygen becomes available to organisms living in soil and water
- ✧ uses of air

TEACHING AIDS

Pictures/charts/models/animation on composition of air; fishes in sea; smoke from chimneys, automobiles; dust storm; process of photosynthesis; mountaineers carrying oxygen cylinders; windmill; sky diver landing with a parachute (all as given in chapter).

LESSON PLAN

- ✧ Teacher will start the lesson with ‘Science Vocabulary’ section by telling the meaning/definition of new terms which are used in the chapter.
- ✧ Now, with the help of teaching aids, teacher should define the wind, the atmosphere and discuss the composition of air.
- ✧ The teacher should discuss the presence of air all around by performing Activity 1.
- ✧ The teacher should discuss the presence of oxygen gas in air and its necessity for burning by performing Activity 2.
- ✧ The teacher should discuss the use of carbon dioxide gas.
- ✧ The teacher should discuss the presence of water vapour and dust in air by performing Activity 3.
- ✧ The teacher should explain the availability of oxygen for the organisms living in soil and water by performing Activity 4.
- ✧ The teacher should discuss the role of respiration and photosynthesis in maintaining the balance of carbon dioxide and oxygen in air.
- ✧ The teacher should discuss various uses of air.

- ✧ Students should be asked 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 should write few examples, i.e., flapping of pages of a book, moving blades of windmills, ruffling of hair, and ask the students how all these activities are possible.
- ✧ The teacher should ask students one-by-one about the percentage of different components of air.
- ✧ The teacher should ask the students to tell few uses of air other than those given in the book.
- ✧ Students should be encouraged to go through the important information given in 'Beyond the Horizon'.

EXPECTED LEARNING OUTCOMES

The students understand and know the

- ✧ presence of air around us.
- ✧ atmosphere and components of air.
- ✧ availability of oxygen to the organisms living in soil and water.
- ✧ role of respiration and photosynthesis in maintaining the balance of carbon dioxide and oxygen in air.
- ✧ various uses of air.

EVALUATIVE QUESTIONS

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

1. How can you say that air is present everywhere?
2. Give the percentage of different components of air.
3. What is meant by photosynthesis?
4. Why are earthworms called friends of farmers?
5. Define respiration.
6. Which two processes maintain the balance of carbon dioxide and oxygen in air?
7. Give four uses of air.