10 Body and Movements

LESSON PLAN

SPECIFIC OBJECTIVES

The students will learn about

- ✧ organisation of living organisms
- ✧ organ systems in human body
- ✧ locomotion in animals
- ✧ skeletal system
- ✧ human skeletal system
- ✧ joints
- ✧ movement of bones

TEACHING AIDS

Pictures/charts/models/animation on organ systems in human body; locomotion in earthworm, snail, cockroach, fish, snake, birds; human skeleton; joints in human body, types of joints; movement in bones (all as given in chapter).

LESSON PLAN

- ✧ The teacher will start the chapter with Gear Up asking students to tell the body parts involved in doing the exercises given in the section.
- ✧ Teacher should explain unicellular and multicellular organisms and levels of organisation, i.e., tissue, organ, organ system and organism in multicellular organisms.
- ✧ Teacher should briefly discuss organ systems in human body and their functions as given in Table 10.1.
- ✧ The teacher should explain the concept of movement and locomotion, and discuss about the locomotion in animals (as given in chapter).
- ✧ Teacher will explain the movement in earthworm, and locomotory organs of cockroach with the help of Activities 1 and 2.
- ✧ The teacher should explain skeletal system and its functions.
- ✧ Teacher should explain the human skeletal system and its parts.

- ✧ The teacher should discuss joints and their types along with movement of bones.
- ✧ Teacher should ask the students to perform Activity 4 in the class.
- ✧ The teacher should ask students to solve Check Points 1, 2, 3 and 4.
- ✧ 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 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 will divide all the students into groups and then call students from each group one-by-one and ask them to write the name of one unicellular and one multicellular organism on the board. The group, which will write maximum correct answers, will be declared as a winner.
- ✧ Students should also be asked to identify the organ and related organ system.
- ✧ Students should be asked to observe the movement and locomotion of some more animals other than those given in the book.

EXPECTED LEARNING OUTCOMES

The students understand and know the

- ✧ unicellular and multicellular organisms.
- ✧ living organisms and their levels of organisation.
- ✧ movement and locomotion in various kinds of animals.
- ✧ skeletal system and its functions, human skeletal system and its parts.
- ✧ joints and their types.
- ✧ movement of bones.

EVALUATIVE QUESTIONS

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

1. What is the differences between unicellular and multicellular organisms?
2. What is meant by organ system? Write one example of it.
3. How does an earthworm move?
4. Define operculum.
5. Give main function of the skeletal system.
6. How is rib cage formed?
7. Which organ system do brain, spinal cord and nerves belong to?