

# 4

## The Nervous System

### LESSON PLAN

#### SPECIFIC OBJECTIVES

The students learn about

- ✧ nervous system, its parts and their functions
- ✧ reflex action and its importance in the body
- ✧ sense organs of the body, their functions and care

#### TEACHING AIDS

**Pictures/charts/models/animation** on structure of brain, spinal cord, nerves, types of nerves and their working (as given in chapter), reflex action (as given in chapter); structure, functioning and care of sense organs – eyes, ears, nose, tongue, skin (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.
- ✧ With the help of teaching aids, teacher will explain the cell and its role in making human body.
- ✧ Teacher will explain how same types of cells together form tissues, tissues form organs and many types of organs form an organ system that in turn forms an organism.
- ✧ The teacher will discuss about the nervous system and its functions.
- ✧ With the help of teaching aids, teacher will explain the structure and functions of each part of the nervous system, i.e., brain, spinal cord and nerves (as given in the chapter).
- ✧ With the help of teaching aids, teacher will describe the types of nerves and how they work (as given in the chapter).
- ✧ Now, teacher will introduce the phenomenon of reflex action, its significance to the body and with the help of teaching aids, explain how it takes place.
- ✧ Now, to check the understanding of students about the topic, teacher will ask them to solve ‘Check Point 1’.
- ✧ Now, teacher will discuss the sense organs and their significance.

- ✧ With the help of teaching aids, teacher will explain the structure and functioning of each sense organ. Teacher will also discuss the caring of sense organs for keeping them safe and healthy (as given in chapter).
- ✧ Now, teacher will ask students to solve 'Check Point 2'.
- ✧ The teacher will sum up the chapter by going through the points given under the head 'Wrapping it up'.
- ✧ Finally, the teacher will help students to solve all the questions given in the 'Exercises'.

### **BOOST UP**

- ✧ Teacher should discuss that brain is the control centre of body because it controls the functioning of all body organs.
- ✧ Teacher should encourage students to take care of their sense organs for good health.
- ✧ Teacher should revise the bony parts that protect brain, spinal cord, eyes, ear, etc.

### **EXPECTED LEARNING OUTCOMES**

The students understand and know about

- ✧ how cells form tissues, tissues compose organs and several organs together make an organ system.
- ✧ nervous system, its parts and their functioning.
- ✧ reflex action and its importance.
- ✧ sense organs of the body, their functions and how to keep them healthy.

### **EVALUATIVE QUESTIONS**

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

1. What is nervous system?
2. What are the parts of nervous system?
3. Which is the biggest part of the brain?
4. Which part controls the balance of the body?
5. Which part of body controls our involuntary actions?
6. Which structures in body connect the brain and spinal cord to all parts of body?
7. What is a reflex action?
8. Name the sense organs of the body.
9. Which nerve carries message from eye to the brain?
10. How does skin help in removing body wastes?