

## LESSON PLAN

### SPECIFIC OBJECTIVES

The students will learn about

- ✧ transport of materials
- ✧ mode of transport
- ✧ circulatory system
- ✧ excretion in animals
- ✧ transport of substances in plants
- ✧ transpiration and its importance

### TEACHING AIDS

**Pictures/charts/models/animations** on blood corpuscles in human blood, blood vessels, valves inside a vein, human heart, circulation of blood in human body; human excretory system, path of water and minerals in plants.

### LESSON PLAN

- ✧ The teacher will start the lesson with 'Science Vocabulary' section by telling the meaning/definition of new terms which are used in the chapter.
- ✧ Now, the teacher should discuss the transport of substances like nutrients, water and oxygen in living organisms from single-celled organisms to complex multicellular animals and plants.
- ✧ The teacher should discuss the modes of transport, i.e., circulatory system in animals and vascular system in plants.
- ✧ Now, the teacher should explain circulatory system, its parts, functions and working.
- ✧ The teacher should make students perform Activities 1 and 2 for a clear understanding of circulatory system.
- ✧ Now, the teacher should discuss excretion in animals and types of body wastes.
- ✧ Then, the teacher should explain excretory system and its parts in human beings.
- ✧ The teacher should discuss skin as organ of excretion in human body.
- ✧ Now, teacher should discuss transport of water, minerals and food in plants.

- ✧ The teacher should explain the process of transpiration in plants by demonstrating Activity 5.
- ✧ Students should be asked to solve 'Check Points' 1, 2, 3 and 4.
- ✧ 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 give Activities 3 and 4 as home assignment and ask students to discuss the results in the class.
- ✧ The teacher should encourage the students to observe the effects of transpiration in nature.

### **EXPECTED LEARNING OUTCOMES**

The students know about

- ✧ transport of materials and modes of transport in living organisms.
- ✧ circulatory system and excretory system in human beings.
- ✧ transport of substances in plants.
- ✧ transpiration and its importance

### **EVALUATIVE QUESTIONS**

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

1. What is meant by circulatory system?
2. Mention few functions of blood.
3. What is the difference between RBCs and WBCs?
4. Where is heart located?
5. Where are kidneys located in the body?
6. Write two functions of vascular system in plants.