LESSON PLAN

, –	— — SPECIFIC OBJECTIVES	_	—	_	_
' Th	e students will learn about				
 	cell and discovery of cell				
 \$	concept of cell theory				
ر ا	unicellular and multicellular organisms				
. \$	diversity in shape and size of cells				
 	cell structure				
(♦	differences between animal and plant cells				

TEACHING AIDS

Pictures/charts/models/animations on Robert Hooke's microscope, electron microscope; *Amoeba, Paramecium, Hydra,* a plant cell and an animal cell.

LESSON PLAN

- ♦ Teacher will start the chapter by going through the points given in 'Know these points before you start' section.
- ♦ Now, teacher will define a cell and discuss its discovery.
- ♦ Teacher will explain cell theory and how to study a cell.
- ♦ Teacher will discuss types of organisms on the basis of number of cells, i.e., unicellular and multicellular organisms.
- ♦ Now, teacher will define tissues, organ and organ system.
- ♦ Teacher will ask students to solve Check Point 1.
- ♦ Teacher will discuss about diversity in shape and size of cells in organisms.
- ♦ Teacher will explain cell structure, cell organelles and their functions.
- Then, teacher will discuss the differences between plant and animal cells by demonstrating activities given in the chapter.
- ♦ Now, teacher will ask students to solve Check Point 2.

- ♦ 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 watch Discovery, National Geographic and Animal Planet channels to know more about plants and animals.
- Teacher should encourage students to collect pictures and learn the names of unicellular and multicellular organisms.
- Teacher should explain the significance of development of microscope in the discovery and study of cells.

EXPECTED LEARNING OUTCOMES

The students know about

- ♦ cell, its discovery and cell theory.
- differences between unicellular and multicellular organisms.
- diversity in shape and size of cells.
- structure of a cell, its organelles and their functions.
- differences between animal and plant cells.

EVALUATIVE QUESTIONS

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

- 1. Define cell. Who discovered it?
- 2. Mention the differences between unicellular and multicellular organisms.
- **3.** Who gave cell theory?
- 4. In which cells is cell wall found?
- 5. Why are mitochondria called powerhouse of the cell?
- 6. Mention two functions of nucleus.
- 7. What are chloroplasts?