Objects in Motion

12

LESSON PLAN

SPECIFIC OBJECTIVES

The students will learn about

- concept of rest and motion
- different types of motion

TEACHING AIDS

Pictures/charts/models/animation on car moving on – a straight road, curved road; pendulum clock, swing; giant wheel, motion of planets around the sun; motion of a dolphin in water; motion of a rolling ball.

LESSON PLAN

- Teacher will start the chapter by going through the points given in 'Know these points before you start' section.
- Teacher will discuss the concept of rest and motion giving suitable examples.
- With the help of suitable teaching aids, teacher will explain the main types of motion, i.e., translatory, circular and oscillatory motions.
- With the help of suitable examples and teaching aids, teacher will explain subtypes of translatory motion, i.e., rectilinear and curvilinear motions and of circular motion, i.e., rotatory and revolutionary motions.
- Teacher will ask students to solve Check Point 1.
- Now, with suitable examples, teacher will explain periodic and nonperiodic motions.
- Teacher will also explain simultaneous motion.
- 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.

EXPECTED LEARNING OUTCOMES

The students understand and know the

- concept of rest and motion.
- types of motion.
- simultaneous motion.

EVALUATIVE QUESTIONS

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

1. What does it mean when we say 'the object is in motion'?
2. Give two examples of circular motion.
3. What is the difference between periodic and nonperiodic motion?
4. What are vibrations?
5. What is simultaneous motion?