

Chapter 9

Work and Energy

LESSON PLAN

SPECIFIC OBJECTIVES

The students will learn about

- ❖ work and energy
- ❖ renewable and nonrenewable sources of energy
- ❖ various forms of energy

Teaching Aids

Pictures/charts/models/animation on the topics given in the chapter.

Lesson Plan

- ❖ Teacher will start the chapter with 'Gear Up' section discussing the sun as a source of energy and help students in doing the task given in the section.
- ❖ Teacher will define 'work' from scientific point of view and with the help of suitable teaching aids, will explain when work is said to be done or not done.
- ❖ Teacher will define energy and energy-giving foods.
- ❖ Teacher will explain the relationship between work and energy.
- ❖ Teacher will discuss renewable and nonrenewable sources of energy as well as various forms of energy and their uses.
- ❖ Teacher will discuss the need to save energy.
- ❖ Now, teacher will ask students to solve the given 'Check Point'.
- ❖ At last, teacher will sum up the chapter by going through all the points given under the head 'Wrap up now' and revising the 'New Words'.
- ❖ Finally, teacher will help students to solve all the exercises given under the head 'Practice Time'.

Boost Up

- ❖ Teacher should encourage students in carrying out activities given in the chapter.
- ❖ Teacher should elaborate the meaning of 'work' in scientific perspective and encourage students to explore themselves different examples from day-to-day life when work is done or not done.
- ❖ Teacher should encourage students to explore more ways for saving energy.

Expected Learning Outcomes

The students understand and know

- ❖ how to define work from scientific point of view.
- ❖ energy and energy-giving food.
- ❖ relationship between work and energy.
- ❖ renewable and nonrenewable sources of energy.
- ❖ various forms of energy and their uses.
- ❖ need for saving energy.

Evaluative Questions

Teacher may ask the following questions for evaluating learning and understanding of students:

1. When do we say work is done?
2. What is energy?
3. What are nonrenewable sources of energy?
4. Name various forms of energy.
5. Why should we save energy?