LESSON PLAN

SPECIFIC OBJECT	IVES — —	— — ,
The students will learn about		
♦ concept of heat		I
♦ transformation of heat energy		
\diamond how to read a thermometer		1
♦ clinical thermometer, its structure and	l use	
♦ laboratory thermometer and its struct	ure	
$ \diamond$ precautions taken while using a therm	nometer	J

TEACHING AIDS

Pictures/charts/models/animations on electrical devices-electric iron, geyser, room heater, electric bulb; laboratory thermometer, clinical thermometer.

LESSON PLAN

- ♦ Teacher will start the chapter by going through the points given in 'Know these points before you start' section.
- ♦ Teacher will define the concept of heat as energy and its transformation in other forms of energy.
- ♦ Teacher will discuss how to determine the hotness of an object and will define the concept of temperature.
- ♦ Teacher will ask students to solve Check Point 1.
- ♦ Teacher will discuss the scale to measure temperature and the method of reading a thermometer.
- ♦ Teacher will describe the structure of a laboratory thermometer and will discuss the precautions taken while using it.
- ♦ Now, teacher will describe the structure of a clinical thermometer and its use to measure human body temperature and the precautions taken while using it.

- ♦ Teacher will ask students to solve Check Points 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 observe various forms of transformation of energy in everyday life.
- ♦ Students should be asked to obtain their body temperature with the help of a clinical thermometer.

EXPECTED LEARNING OUTCOMES

The students know about

- ♦ concept of heat and its transformation.
- ♦ hotness and coldness of objects.
- ♦ concept of temperature and measuring of temperature with a thermometer.
- ♦ scale of temperature measurement.
- structure and uses of clinical and laboratory thermometers.
- ♦ precautions while handling thermometers.

EVALUATIVE QUESTIONS

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

- **1.** Define heat.
- 2. Is heat energy transformed into mechanical energy in a steam engine?
- 3. Which instrument is used to measure the human body temperature?
- 4. Mention the differences between clinical and laboratory thermometers.
- 5. What is the range of laboratory thermometer?
- 6. What is the average temperature of human body?
- 7. Mention few precautions while handling a clinical thermometer.