

# Measurement

## SPECIFIC OBJECTIVES

- The students learn about
- ❖ measurement and its need
  - ❖ measuring units
  - ❖ measuring of length, time, capacity, mass, temperature and their units

### TEACHING AIDS

Pictures of weighing balance, different measuring pots, weighing machine used at grocery shop and doctor's clinic; measuring tape, metre scale, a watch, soft drink cans and bottles of different capacities, milk pouch, thermometer, devices to measure capacities

### LESSON PLAN

- ❖ Teacher will start the chapter by asking some general questions about measurement in daily life.
- ❖ Now, teacher will explain what the measuring is and we measure to get the correct amount of the things.
- ❖ Now, with the help of teaching aids, teacher will explain that different things are measured with different measuring devices.
- ❖ Teacher will explain about measuring devices and show their different samples/pictures.
- ❖ Now, teacher will explain the concept of unit that everything is measured in a unit.
- ❖ Teacher will also explain that different units are used for measuring different things.
- ❖ Now, teacher will explain the measuring of length, time, capacity, mass and temperature and their units with the help of different teaching aids.
- ❖ To evaluate the understanding of chapter, the teacher will ask the students to solve 'Checkpoint'.
- ❖ At last, teacher will make students revise the new terms given in 'Science Vocabulary' and sum up the lesson by going through the points given in 'Wrapping it up'.
- ❖ Now, teacher will help students to solve the questions given in 'Exercises'.

## BOOST UP

- ❖ Teacher should encourage students to carry out activities given in the chapter and discuss the information given in the 'Knowledge Desk'.
- ❖ Teacher should discuss the conversation of Annu and Mannu given in bubbles in between the topics.
- ❖ Teacher should help students to find the answers of questions given in 'Think Zone' and encourage to do activities or projects given in 'Beyond the Text'.
- ❖ Teacher should also discuss the facts given in 'Interesting Information'.
- ❖ Teacher can demonstrate the measuring of all the quantities taught in the class.
- ❖ Teacher can give students an assignment to measure the length of their pencil box, tiffin, book with centimetre scale and note them in their notebook.

## EXPECTED LEARNING OUTCOMES

The students

- ❖ understand the concept of measurement and its need
- ❖ know about different measuring devices
- ❖ understand the concept of length, capacity and temperature
- ❖ know about different units for measuring length, capacity and temperature

## EVALUATIVE QUESTIONS

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

1. What are physical quantities?
2. What are measuring instruments for length, time, weight and temperature?
3. What are measuring units of length?
4. What are measuring units of mass?
5. What is the standard unit of time?
6. What is Fahrenheit ( $^{\circ}\text{F}$ )?