

Chapter 10

Measurement

LESSON PLAN

SPECIFIC OBJECTIVES

The students will learn about

- ❖ measurement and its need
- ❖ measuring units
- ❖ measurement of length, time, capacity, mass, temperature and their respective units

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 need of measurement in our daily life.
- ❖ Now, teacher will explain the need of measurement.
- ❖ Now, with the help of teaching aids, teacher will explain different measuring devices.
- ❖ Teacher will explain the concept of unit.
- ❖ Teacher will also explain different units used for measuring different things.
- ❖ Now, teacher will explain the measuring of length, time, capacity, weight and temperature and their units with the help of different teaching aids.

Measuring Length

- Teacher will explain the concept of length and correlate it with everyday life.
- Teacher will also explain devices with which length is measured.
- Teacher will also explain standard unit, smaller and larger units of length.

Measuring Time

- Teacher will explain the need of measuring time in everyday life and show pictures/sample of different types of watches as measuring device.
- Teacher will explain standard unit, smaller and larger units of time.

- ❖ To check the understanding of topics, teacher will ask students to solve 'Check Point 1'.

Measuring Capacity

- Teacher will define capacity showing different things of different capacities such as soft drink cans and bottles, milk pouch, etc.
- Now, teacher will show measuring devices of different capacities.
- Teacher will explain standard unit, smaller units and larger units of capacity.

Measuring Weight

- Teacher will show picture/sample of weighing balance used for measuring the weight of an object.
- Teacher will explain the standard unit, smaller and larger units of weight.

Measuring Temperature

- Teacher will define temperature.
- Teacher will show thermometer as measuring device of temperature.
- Teacher will explain standard unit and other units for measuring temperature.
- Teacher will also discuss about normal temperature of human body.
- To evaluate the understanding of topics, teacher will ask students to solve 'Check Point 2'.
- ❖ Teacher will sum up the chapter by going through 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 may 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, etc. with centimetre scale and note them in their notebooks.

Expected Learning Outcomes

The students understand and know

- ❖ the concept of measurement and its need.
- ❖ different measuring devices.
- ❖ the concept of length, time, capacity, weight and temperature.
- ❖ different units for measuring length, time, capacity, weight and temperature.

Evaluative Questions

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

1. Name the physical quantities.
2. Name instruments used for measuring length, time, weight and temperature.
3. Name the measuring units of length.
4. Name the measuring units of weight.
5. Name the standard unit of time.
6. What is degree Fahrenheit (°F)?