

LESSON PLAN

SPECIFIC OBJECTIVES

- The students learn about
- ❖ personal units of measurement
 - ❖ concept of measurement
 - ❖ need for measurement
 - ❖ need for standardisation of units
 - ❖ multiples and submultiples of commonly used SI units
 - ❖ standard unit of length
 - ❖ devices used for measuring length
 - ❖ correct method of measuring length with the help of scale or ruler
 - ❖ measuring the length of curved lines

TEACHING AIDS

Pictures/charts/models/animation on personal units of measurement; devices for measuring length; multiples and submultiples of SI units of length, mass and time; measuring the length using scale and measuring the length of a curved line.

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 measurement and unit and explain the need of measurement.
- ❖ Teacher will discuss various personal measuring units used in ancient times (as given in the chapter).
- ❖ Teacher will discuss the need for standardisation of units.
- ❖ Teacher will ask students to solve Check Point 1.
- ❖ Now, teacher will discuss standard unit of length and explain the multiples and submultiples of commonly used units and how they are used by giving some numerical examples.

- ❖ Teacher will discuss the common devices used for measuring length.
- ❖ Teacher will demonstrate the correct method of measuring the dimensions of an object using a scale.
- ❖ Teacher will demonstrate how to measure the length of a curved line by using a thread and a divider.
- ❖ Now, 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.
- ❖ Teacher should discuss the facts given in the table.
- ❖ Teacher should also discuss the drawbacks of using ancient measuring units, i.e., angul, handspan, cubit, foot, etc.

EXPECTED LEARNING OUTCOMES

The students understand and know the

- ❖ importance of measurement.
- ❖ need for standardisation of units.
- ❖ different units of measurement used in ancient times.
- ❖ multiples and submultiples of SI units and their uses.
- ❖ correct method of measuring a length by using a scale.
- ❖ measuring the length of curved lines.

EVALUATIVE QUESTIONS

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

1. Why is measurement necessary in our daily life?
2. What is the difference between an angul and a handspan?
3. What are the SI units of length and mass?