

Measurement

SPECIFIC OBJECTIVES

The students will

- recall the use of metric units.
- know the measurement of length.
- learn how to convert the units of length.
- perform the addition and subtraction of measures of length.
- know the measurement of weight.
- learn how to convert the units of weight.
- learn to add and subtract the measures of weight.
- understand the meaning of capacity or volume.
- know how to convert the units of capacity.
- learn the addition and subtraction of capacities.
- know the use of measurement in daily life.

CONTENTS EXPLAINED INSIDE THE CHAPTER

- Measurement of Length (page 112)
- Conversion of Units (pages 112–114)
- Adding and Subtracting the Units of Length (pages 114–117)
- Measurement of Weight (page 117)
- Conversion of Units of Weight (pages 117–118)
- Adding and Subtracting the Units of Weight (pages 118–121)
- Measurement of Capacity (page 121)
- Conversion of Units of Capacity (pages 121–122)
- Adding and Subtracting the Units of Capacity (pages 122–125)
- Word Problems (pages 125–126)

TEACHING AIDS

A measuring tape, a meter rod, weights, a measuring cylinder, etc.

TEACHING STRATEGY

- First, the teacher should talk about the passage given on page 111 to recall the concepts of units to the students.
- The teacher should also explain the measurement of length in brief and teach them the conversion of units. Then, she should go to pages 112–114 for text and exercise.
- Next, she should involve them in learning addition and subtraction of length. She should also focus on the common errors committed by the students. For text and exercise, she should go to pages 114–117.
- Further, she should discuss about the measurement of weight. She should also explain how to convert the units of weight. For text and exercise, to she should go pages 117–118.
- Then, she should encourage them to add and subtract weights as given on pages 118–121. Ask them to solve the Exercise 5.4.
- Thereafter, she should explain the term ‘volume’ and ‘capacity’ with its units to the students. She should ask them to convert the units using similar method. Then, she should go to pages 121–122 for text and exercise.
- Also, she should explain them how to add or subtract the measurements of capacity. For this she should go to pages 122–125 for text and exercise.
- She should discuss with them about daily life situations where they use measurement of length, weight and capacity. Now, she should go to pages 125–126 for text and exercise.
- She should also ask them to read and understand the situation given in Fun Zone related to life skills. Then, solve the problems given in the passage.
- Finally, she should ask them to enjoy the Maths Lab Activity which will reinforce their knowledge to know more about volume/capacity.

EXPECTED LEARNING OUTCOMES

Students are able to

- use the units of measurement as per need.
- understand the measurement of length, weight and capacity.
- convert the units of length, weight and capacity from one to another.
- perform the addition and subtraction of measurement.
- tackle problems involving measurement of length, weight and capacity in daily life.