

Measurement

Chapter 2: Measurement · Topic 1

Key Concept

Length is measured using standard units like metres and centimetres, using tools like rulers and measuring tapes.

Area is the amount of surface a shape covers, calculated for a rectangle as $\text{length} \times \text{width}$, measured in square units.

Volume is the amount of space an object occupies, calculated for a cuboid as $\text{length} \times \text{width} \times \text{height}$, measured in cubic units.

Accurate measurement is essential in science experiments, construction, and daily activities requiring precise quantities.

Quick Revision Notes

- Length: measured in metres, centimetres.
- Tools: rulers, measuring tapes.
- Area: surface covered by a shape.
- Rectangle area = $\text{length} \times \text{width}$.
- Measured in square units.
- Volume: space an object occupies.
- Cuboid volume = $\text{length} \times \text{width} \times \text{height}$.
- Measured in cubic units.

Practice Questions

- 1 Measure the length of your desk.
- 2 Calculate the area of a rectangular sheet of paper.
- 3 Calculate the volume of a box.
- 4 Discuss why accurate measurement matters in construction.
- 5 Compare units for length, area, and volume.
- 6 Explain the difference between area and volume.