

## Lesson 23

### Comparing and Measuring Matter

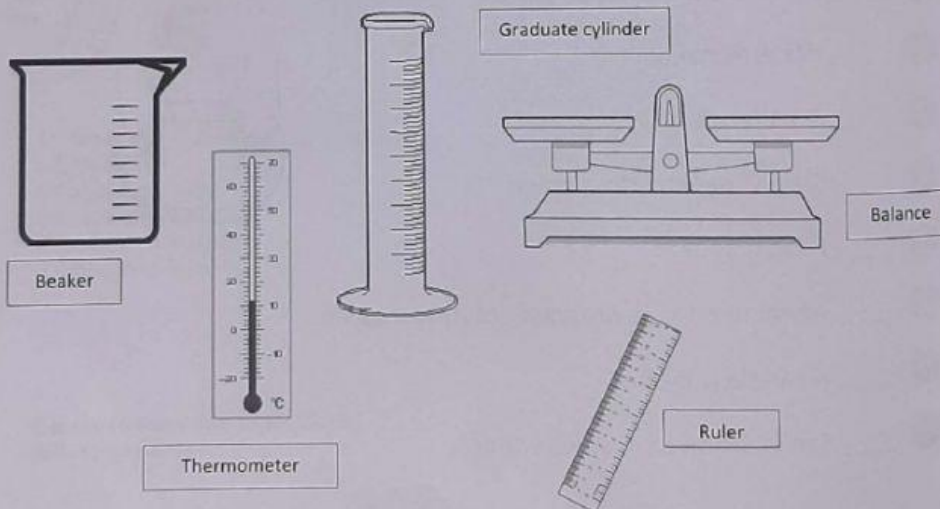
Many physical properties can be measured with instruments. **Mass** is one of those properties. Mass is the **amount of matter** in an object. A golf ball has more mass than a table tennis ball, but to find the exact mass of each ball, it must be measured with a balance/scale.



**Density** is a **property** that is related to mass. Density is the measure of the mass of a certain volume of a substance. Suppose that two substances have the same mass but that one takes up more space. The one that takes up more space has a lower density.



The amount of space that matter takes up is called **volume**. Measuring cups and spoons are used to measure volume. Scientists measure volume with a **beaker** or a **graduate**, a **tall cylinder** with measuring marks on the side.



Name:

1. What is mass?
2. Which instrument is used to measure mass?
3. Define the term density.
4. Define the term volume.
5. Name the instrument that is used to measure volume.

Shade in the box next to the best answer. [2]

4. Which instrument is used to measure mass?

A ☐



beaker

B ☐



ruler

C ☐



balance scale

D ☐

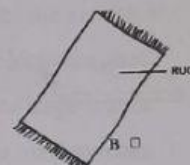


thermometer

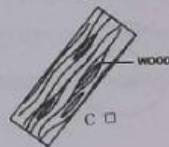
5. Which has volume but no definite shape?



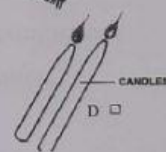
A ☐



B ☐



C ☐



D ☐