

NAME .....

DATE .....

1 Complete the sentence using these words.

## mass – space

Matter is everything around us that occupies ..... All matter has two general properties: ..... and volume.

2 Match to make sentences.

Mass

• is the amount of space that an object occupies.

Volume

• is a measurement of the amount of matter contained in a certain volume.

Density

• is the amount of matter in an object.

3 Calculate the volume of a solid. Write.

- 1 Pour 120 mL of liquid into a measuring cylinder. Read the volume on the scale.
- 2 Add the solid and read the new volume.
- 3 Subtract the first reading from the second one to find the volume of the solid. The new reading is 130 mL, so the volume of the solid is ..... mL, or .....  $\text{cm}^3$ .

4 Look at the picture and tick the correct answer.



• What is the volume of the substance?

1 litre  1 kilogram  1 millilitre

• What is its mass?

1 litre  1 kilogram  1 millilitre

• What is its density?

$1 \text{ cm}^3/\text{g}$    $1 \text{ g/L}$    $1 \text{ g/cm}^3$

5 A stone has a density of  $4 \text{ g/cm}^3$ . Water has a density of  $1 \text{ g/cm}^3$ . Does the stone float or sink in water? Write the correct word.

## floats – sinks

• The stone ..... in water.

## 6 Tick the effects that forces can have on objects.

- They can make objects start moving.
- They can make objects change colour.
- They can affect their speed and make objects stop moving.
- They can make objects change shape.

## 7 What type of force is gravity? Circle the correct words.

Gravity is a force that acts at a distance.

Gravity is a contact/non-contact force.

## 8 Match to make sentences.

Plastic objects

go back to their original shape when a force stops acting upon them.

Rigid objects

do not return to their initial shape when a force stops acting upon them.

Elastic objects

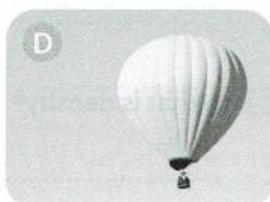
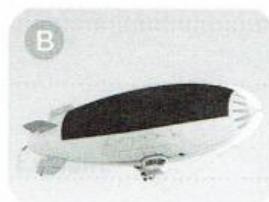
do not change their shape and break if sufficient force is applied to them.

9 Complete the sentence using these words: *moving, force, contact*.

Friction is the ..... that slows down a ..... object when it is in ..... with another object.

## 10 What aircraft is shown in each photo? Write.

aeroplane – airship – helicopter – hot-air balloon



.....

.....

.....

.....