

# Year 3 and 4 States of Matter Revision Mat

Match the state of matter to the diagram that shows how their particles behave.

solid

liquid

gas



Next to each object, write whether it is a liquid, solid or gas.



plastic ruler \_\_\_\_\_



milk \_\_\_\_\_



air in a hot air balloon \_\_\_\_\_



bubbles in a fizzy drink \_\_\_\_\_



metal scissors \_\_\_\_\_



water \_\_\_\_\_

Write **true** or **false** next to each statement.

Some materials can change from one state to another and back again. \_\_\_\_\_

A solid takes the shape of the container it is in. \_\_\_\_\_

Solids are always hard. \_\_\_\_\_

Liquids can be poured. \_\_\_\_\_

Gases have a fixed shape. \_\_\_\_\_

Some materials can change state when heated or cooled. Draw a line from the change of state to either the word 'heat' or the word 'cooling'.

solid to liquid

liquid to gas

liquid to solid

heat

cooling

Fill in the missing words in the sentences:

When liquids reach a certain \_\_\_\_\_, they change state into a \_\_\_\_\_ or a \_\_\_\_\_. The temperatures that these changes happen at are called the boiling, \_\_\_\_\_ or freezing \_\_\_\_\_.

Fill in the missing words to complete the sentences.

The process of a liquid changing state into a gas is called \_\_\_\_\_.

The process of a gas changing state into a liquid is called \_\_\_\_\_.

The fall of liquid or solid particles as rain, sleet, hail or snow from a cloud is called \_\_\_\_\_.