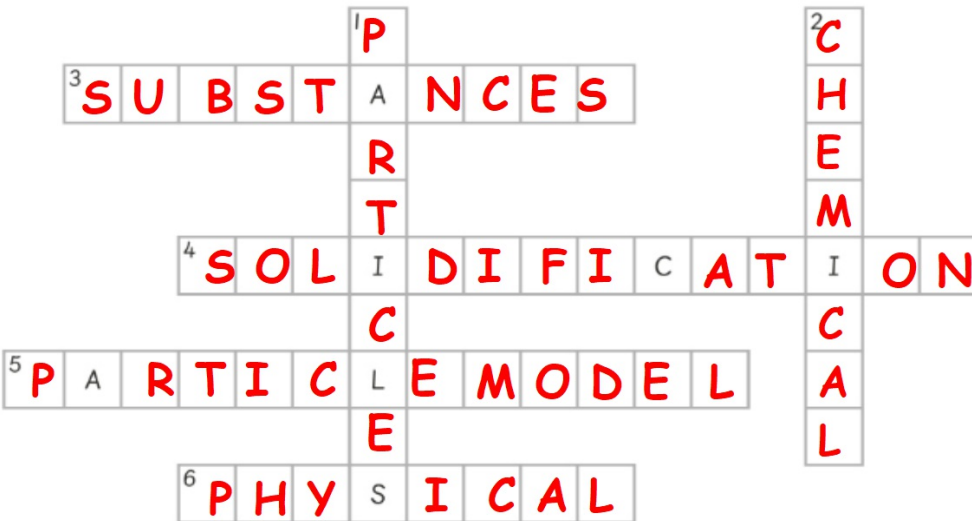


Complete the crossword puzzle using the given clues.



Activity Book p.48

Down

- 1 The tiny units that make up matter are called particles.
- 2 New substances are formed during chemical reactions.

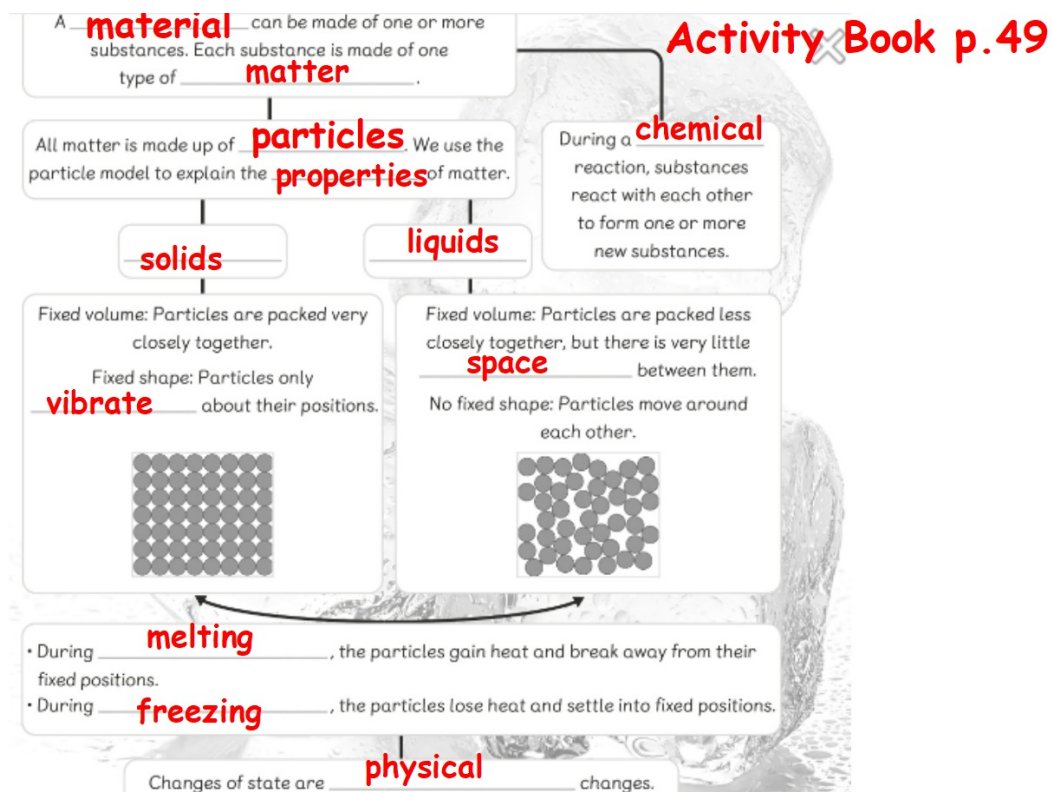
Across

- 3 Materials are made of substances.
- 4 Solidification takes place when you place water in a freezer.
- 5 The particle model explains the properties of matter and what happens during changes of state.
- 6 Melting is a physical change.

Let's Map It!

Fill in the blanks. Use the following words.

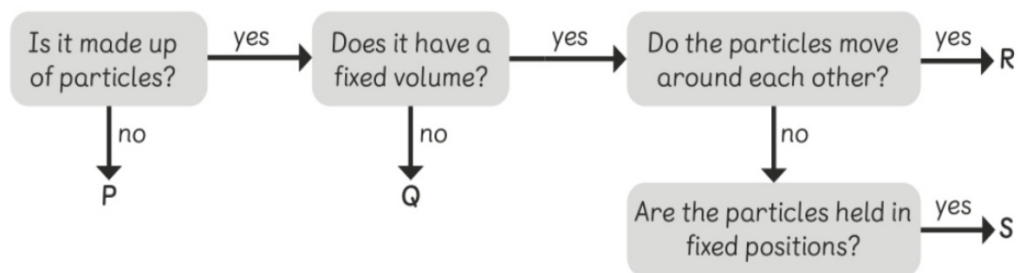
chemical	freezing	liquids	material
matter	melting	particles	physical
properties	solids	space	vibrate



Let's Review

Activity Book p.50

I Maria draws a flowchart.



In the table, write the letter **P**, **Q**, **R** or **S** to identify each substance.

Substance	Letter
Rock	S
Oil	R

Activity Book p.50

- 2 Ben pours some apple juice into moulds. He places the moulds in the freezer.



- a What state of matter is the apple juice in before it is placed in the freezer?

liquid state

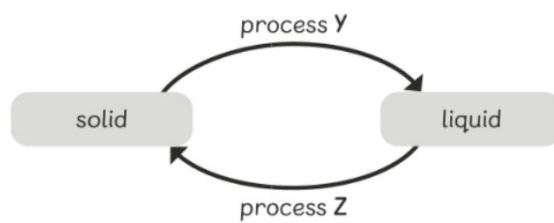
- b What will happen to the apple juice after a few hours in the freezer?

Complete the sentence.

The apple juice will change into a solid / freeze / solidify

3 The chart shows some changes of state of matter.

Activity Book p.51



a Name process Y.

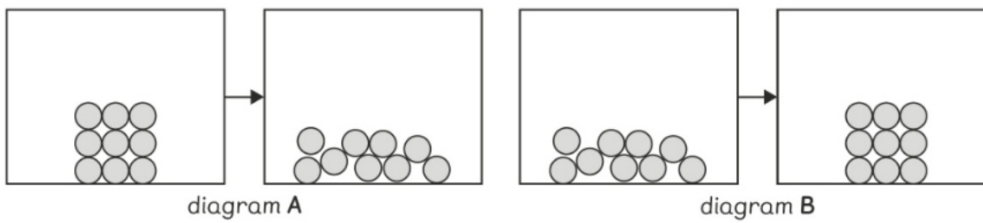
Melting

b Name process Z.

Freezing / Solidification

Activity Book p.51

c The diagrams show the changes of state above.



Which diagram shows the change from a liquid into a solid?

Circle the correct answer.

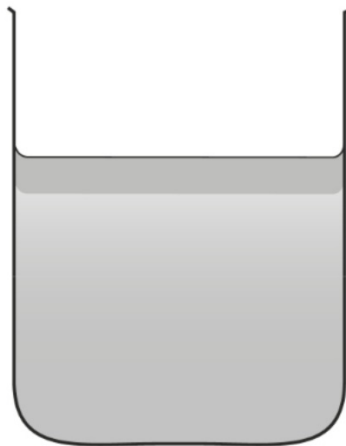
diagram A

diagram B

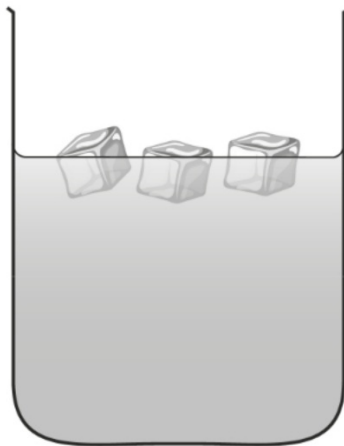
4 Chen and Ravi carry out an experiment.

Activity Book p.52

The diagram shows what they observe.



mixing oil and water in a beaker



melting ice in a beaker

Activity Book p.52

Chen says that mixing oil and water is a physical change, but melting ice is a chemical change.

Ravi says that both are physical changes.

Who is correct? Explain your answer.

Ravi is correct. In both changes, no new substance is formed.
