**Name** _____ **Date** _____

# End-of-unit 3 test

*The End-of-unit test has been written by the authors. This may not fully reflect the approach of Cambridge Assessment International Education.*

20 marks

1 Which of these statements are true and which are false?

Tick (✓) the correct box for each statement.

| Statement | True | False |
|---|---|---|
| **a** All liquids have their own boiling point. | | |
| **b** Particles that condense have lots of energy. | | |
| **c** When water boils, it becomes a gas. | | |
| **d** The particles of a gas move slower than the particles of a liquid. | | |
| **e** Condensation is the opposite process to evaporation. | | |

2 Name the two parts of a solution.

a _____

b _____

3 Write the correct word to complete the sentences.

a Substances that dissolve in water are _____.

b Substances that do not dissolve in water are _____.

4 Choose the correct answer to each of the following questions.
Draw a circle around the letter of the correct answer.

a What happens when we heat water?

A the particles expand

B the particles move faster

C the particles expand and move faster

b When water in a kettle boils, steam is formed. What does steam contain?

A water as a gas

B water as a liquid

C water as a liquid and a gas

c Where does the energy for the water cycle come from?

A water

B plants

C the Sun

d In the water cycle, which process makes clouds form?

A evaporation

B condensation

C freezing

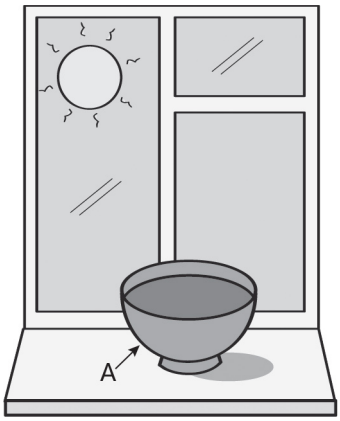
e How can we separate sugar from a solution?

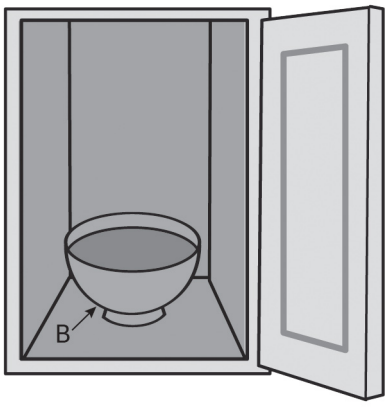
A by evaporation

B by filtering

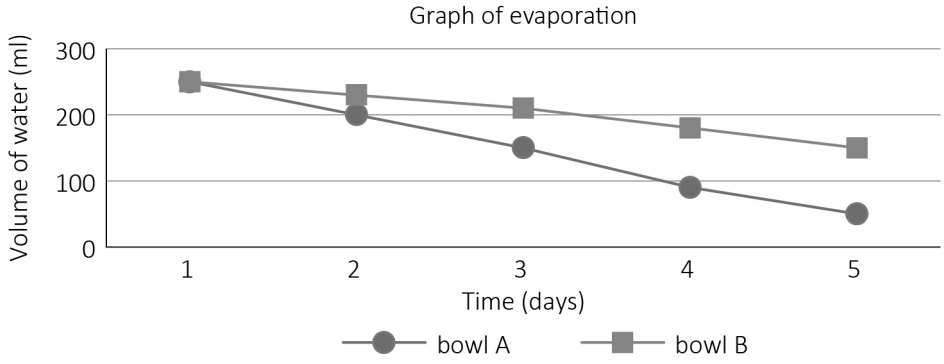
C by cooling

5 Class 5 investigated evaporation of water. They placed one bowl of water in a warm place (bowl A) and another bowl of water in a cool place (bowl B).



The learners measured the amount of water in each bowl every day for five days. They drew this graph.




a Fill in the words to describe the change of state when a substance evaporates.

_____ → _____

b In which bowl did most evaporation take place? _____

c Use data from the graph to say how you know the answer to question b. _____

_____

d Name the dependent variable in the investigation. _____

e Name the independent variable in the investigation. _____