

→ Section 1.1: Principles of chemistry 1

States of matter

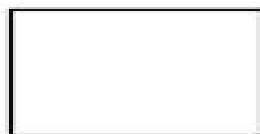
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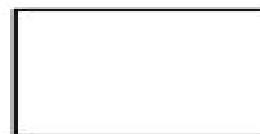
- 1 Complete the boxes below to show the arrangement of particles in solids, liquids and gases. (3 marks)



Solid



Liquid



Gas

- 2 State the name used to describe each of the following changes of state. (5 marks)

a) solid to liquid _____

b) gas to liquid _____

c) liquid to solid _____

d) solid to gas _____

e) liquid to gas _____

- 3 Read the passage below carefully, then answer the questions.

A student went into a coffee shop and ordered a cup of tea. The shop assistant gave the student a cup of very hot water and a tea bag. The student then placed the tea bag in the hot water, added five spoons of sugar to the cup and stirred it. After drinking the tea, the student found some sugar at the bottom of their cup.

a) Which substance was the solvent? _____ (1 mark)

b) Which substance was dissolved in the tea? _____ (1 mark)

c) What do we call a substance that dissolves in a solvent? _____ (1 mark)

d) How did the student know the tea was a saturated solution? (1 mark)

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