

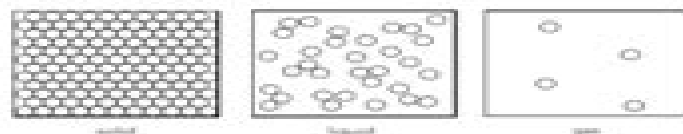
> Workbook answers

Chapter 1

Exercise 1.1

- 1 A solid has a fixed **mass** and **volume / shape**.
A liquid has a fixed **mass** but its **shape** changes to that of the container in which it is placed.
A gas has no fixed **shape** or **volume**. A gas completely fills the container that it is in.

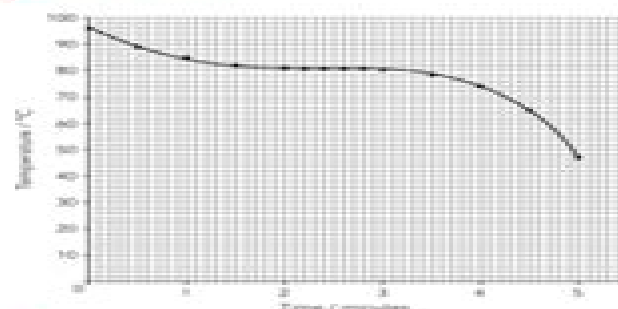
2



- 3 a B
b C
c A
d D
- 4 A freezing (solidification)
B melting
C condensation
D evaporation or boiling
- 5 a radon
b radon and nitrogen
c nitrogen
d cobalt
e The sample of ethanoic acid is impure. The presence of impurities raises the boiling point of a substance.

Exercise 1.2

6



- 7 The student would need to use an oil bath (in place of the water bath) so that the higher temperature could be reached.
- 8 The substance is freezing (solidifying) / turning from liquid to solid.
- 9 The temperature stays constant because energy is being released as the substance solidifies / the molecules are giving out heat as they stop moving from place to place and become organised in a structured lattice arrangement / in the solid the molecules can only vibrate about fixed points / the heat released by the formation of new interactions (forces) between the particles keeps the temperature constant until all the substance is solid.

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