

GCSE Chemistry A (Gateway Science)

J248/01 Chemistry A C1-C3 and C7 (Foundation Tier)

Question Set 25

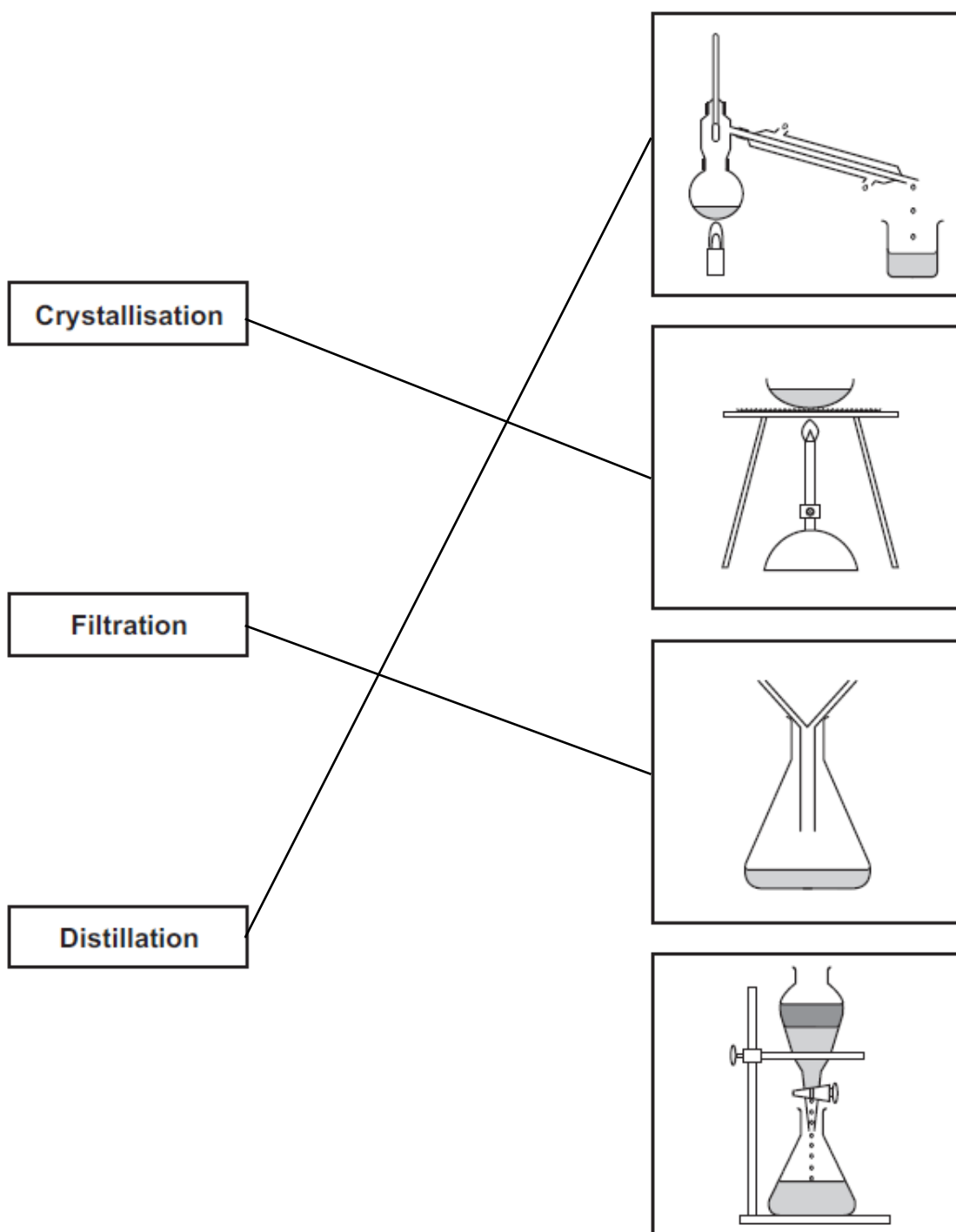
1 Different mixtures can be separated using different methods.

(a) Draw a line from each **separation process** to the **apparatus used**.

Use only **one** line for each process.

Separation process

Apparatus used



[3]

(b) A student is given a mixture of iron filings and sulfur powder.

Suggest a method that he could use to separate the iron and sulfur.

Use magnet as only iron sticks to magnet

[1]

(c) The student heated the mixture to form solid iron sulfide. This is an example of a chemical change.

Write down **two** ways the student will know a chemical reaction has taken place.

1 Black solid which is iron sulfide is formed

2 The iron in the compound is no longer magnetic

[2]

(d) (i) The particle model shows how particles are arranged and how they move in solids, liquids and gases.

Describe how the particles are **arranged** in a solid.

The particles are tightly packed (thus touching each other) in a regular pattern with bonds between the particles

[2]

(ii) Describe how the particles **move** in a solid.

The particles vibrate in their fixed position

[1]

Total Marks for Question Set 25: 9



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