

GCSE Chemistry A (Gateway Science)

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

Question Set 6

1* A student is separating a mixture of three solid substances, **A**, **B** and **C**.

Look at the table. It gives information about these substances.

Substance	Colour	Melting point (°C)	Is it magnetic?	Is it soluble in water?
Α	grey	1535	yes	no
В	white	801	no	yes
С	yellow	1427	no	no

[6]

Suggest how the student can separate the mixture to get pure, dry samples of substances **A**, **B** and **C**.

Explain why your methods work.

- -Use a magnet to separate substance A from B and C (only A would stick to the magnet)
- To get substance C from the mixture of B&C, add the mixture into the water allowing substance B to dissolve (but C didnot)
- Filter insoluble substance C from the solution the solid C will be left after filtering
- Rinse and dry the solid C
- Evaporate the solution of B to obtain solid crystals of B

Total Marks for Question Set 6: 6



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