

GCSE Chemistry A (Gateway Science)

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

Question Set 24

1 A student has a solution of hydrochloric acid, HCl , and a solution of sodium hydroxide, NaOH . He wants to make a pure, dry sample of sodium chloride.

(a) Describe how he can do this.

Include the apparatus he should use and his method.

[4]

(b) Write a **balanced symbol** equation for the reaction.

[1]

(c) The student also investigates other reactions.

The table shows the salts he can make from different starting materials.

Complete the table.

Acid used	Other starting material	Salt made
Sulfuric acid	Copper oxide
.....	Zinc carbonate	Zinc nitrate
Hydrochloric acid	Magnesium chloride

[3]

(d) What **type** of reaction happens when sulfuric acid reacts with copper oxide?

[1]

Total Marks for Question Set 24: 9

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