

# AQA Chemistry GCSE

## Required Practical 1 - Making Salts

### Flashcards

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How could you prepare a sample of pure, dry copper sulfate crystals from a sample of insoluble copper oxide?



How could you prepare a sample of pure, dry copper sulfate crystals from a sample of insoluble copper oxide?

- React sulfuric acid with excess copper oxide
- Filter to remove the excess copper oxide
- Heat the solution to start evaporation
- Turn off the heat and leave until all the water has evaporated
- Left with copper sulfate crystals



Write the chemical equation for the reaction between  $\text{CuO}$  and  $\text{H}_2\text{SO}_4$



Write the chemical equation for the reaction between CuO and H<sub>2</sub>SO<sub>4</sub>



What safety precautions need to be considered when preparing a pure dry salt from an insoluble compound?



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- Bunsen burner should be turned off or put on the safety flame when not in use
- Sulfuric acid is corrosive so wear eye protection



What are two methods of separating mixtures?



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Filtration

Crystallisation



How can you separate an insoluble product from a solution?



# How can you separate an insoluble product from a solution?

## Filtration:

- Filter paper placed in a funnel over a conical flask
- Pour mixture through the funnel
- Insoluble product left on the filter paper



# How can you separate soluble solids from solutions?



# How can you separate soluble solids from solutions?

## Evaporation:

- Place the mixture in an evaporating dish
- Slowly heat the solution
- The solvent evaporates and the solution becomes more concentrated so crystals will start to form
- Keep heating the evaporating dish until you have dry crystals



How could you separate a soluble solid from a solution, if the solid decomposes when heated?



# How could you separate a soluble solid from a solution, if the solid decomposes when heated?

## Crystallisation:

- Pour the solution into an evaporating dish and heat gently
- When the crystals start to form, remove the dish from the heat and leave to cool
- Once cold, filter the crystals out of the solution and leave them in a warm place to dry

