

**YEAR 7 SCIENCE
CHEMICAL SCIENCES
PRACTICAL - SEPARATING SOLUTIONS**

Aim: To investigate how to separate a solution into the solute and solvent.

Method:

Part A - Evaporation

- Set up the following apparatus.

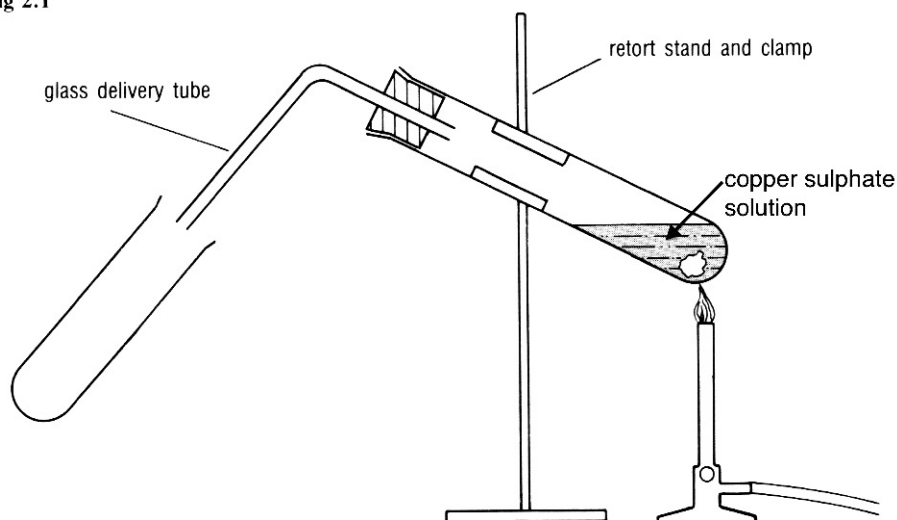


- Place 20 mL of copper sulphate solution into the evaporating basin.
- Set the Bunsen flame to the coolest blue flame with the slightest hint of yellow at the top.
- Heat the solution gently by moving the Bunsen in and out from under the basin.
- DON'T ALLOW IT TO BOIL!**
- Observe carefully what happens.

Part B - Distillation

- Set up the following apparatus

Fig 2.1



- Set the Bunsen flame to the coolest blue flame with the slightest hint of yellow at the top.
- Heat the solution gently by moving the Bunsen in and out from under the test tube.
DON'T ALLOW IT TO BOIL!
- Observe carefully what happens.

Observations

Part A:

Part B:

Discussion:

- What is the true colour of solid copper sulphate?
- Research on the Internet to find out why the copper sulphate solid you used in making the solution is blue.

Conclusion: