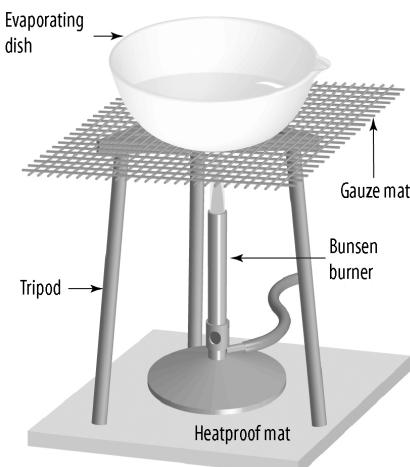


Crystallisation and distillation

Student: Class:

You will need:

Bunsen burner, matches and heatproof mat
tripod and gauze mat
evaporating dish
salt water
safety glasses and laboratory coat
distillation kit (such as Quickfit apparatus).



Part A: Crystallisation

- Pour a small amount of salt water into the evaporating dish.
 - Put the evaporating dish on the gauze mat as shown.
 - Gently boil the salt water until most of the water has evaporated.
 - Once the dish has cooled, observe its contents.
- What residue has formed in the dish?
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 - What has happened to the water?
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- This method of separation is called crystallisation. What could it be used for?
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Part B: Distillation (teacher demonstration)

- Set up the distillation equipment as shown.
- Pour a small amount of salt water into the boiling flask.
- Gently boil the mixture until most of the water has evaporated.
- Describe what you see during the distillation.
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- When would distillation be used instead of crystallisation?
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- What is the purpose of the condenser?
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