

# Matter

## 2. Separating mixtures

### CONCEPT 4

### DISTILLATION

#### NOTES

Distillation is a process used to separate the solute from the solvent in a solution. It involves evaporation and condensation.

The solution is heated in a flask and the solvent (liquid) evaporates. It is then cooled and condensed back into a liquid. The solute is left behind as a solid in the flask.

A solution made from two liquids can be separated using fractional distillation. Different liquids have different boiling points.

When the solution is heated the liquid with the lower boiling point boils and evaporates first. This liquid is then cooled and condensed leaving the liquid with the higher boiling point in the flask. This method can be used to purify ethanol or increasing the concentration of alcoholic drinks.

