

Science - Matter

Separating Mixtures

filtration

To separate out a mixture of liquid and solid, collecting both parts, e.g. pure water from ink, or sea water.

Insoluble materials won't pass through the tiny holes of the filter paper and so are separated from the soluble materials.



distillation

As the liquid is heated it will evaporate and rise. It is then cooled and returned to liquid to be collected. Any solids will remain in the flask.

To separate out a mixture of dissolved solids from a liquid e.g. salt water (this method collects the solid only).

The water will evaporate as steam when heated, leaving behind the soluble materials in the base of the dish.

evaporation

To separate out a mixture of soluble and insoluble solids, e.g. rock salt.

Organise the different methods of separating a mixture into the table below. Click on the boxes and drag them to the correct place in the table. Use the colour of the boxes to help you.

Name	Diagram of Equipment	Scientific Explanation	Examples of Use

