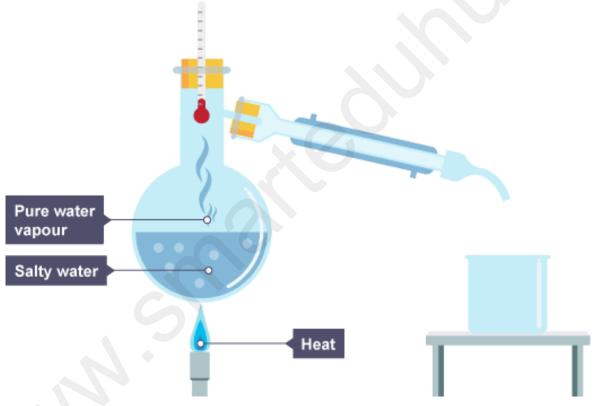
## Simple distilation

Use: Used to separate a dissolved solid (solute) from a solution.

## Method:

Simple distillation is a method for separating the solvent from a solution. For example, water can be separated from salt solution by simple distillation. This method works because water has a much lower boiling point than salt. When the solution is heated, the water evaporates. It is then cooled and condensed into a separate container. The salt does not evaporate and so it stays behind



Every pure substance has its own particular melting point and <u>boiling point</u>. One way to check the purity of the separated liquid is to measure its boiling point. For example, pure water boils at  $100^{\circ}C$ . If it contains any dissolved solids, its boiling point will be higher than this.