



# Simple Distillation

Distillation is a process that uses heat, evaporation, and condensation to distill (collect) a liquid from a solution. The solution is heated, and the liquid with the lower boiling point will evaporate, leaving behind the solute with the higher boiling point. The evaporated gas is cooled and condensed back into a liquid, and then collected.

## Separating water from ink

Mixtures such as water and ink can be separated by distillation. The mixture is heated to pure water's boiling point ( $212^{\circ}\text{F}/100^{\circ}\text{C}$ ).



### Key Facts

- ✓ Simple distillation separates one liquid from a solution.
- ✓ Simple distillation only works if the liquid has a lower boiling point than the solid dissolved within it.
- ✓ Simple distillation leaves you with a pure substance.

