

EXPERIMENT

Treating and purifying water

You have a sample of unclean water before you, and you are tasked with purifying it using the techniques you have learned this far.

- If the water is murky, it contains small granules of some substance.
 - Separate the particles by *filtering*.
- If the mixture conducts electricity, it contains a dissolved *salt* or *ionic compound*.
 - Follow the teacher's instructions and connect a battery to *electrodes*.
- If the mixture boils at a temperature other than 100 °C, there is a substance dissolved.
 - Separate the solute by *evaporation*. Identify the solute.
- If the pH of the sample differs from 7, the mixture is either acidic or basic.
You need to neutralize:
 - an acidic mixture (pH < 7) with a base
 - or a basic mixture (pH > 7) with an acid.

Stage 1: murkiness

equipment

instructions

Stage 2: conductivity

equipment

instructions

Stage 3: boiling point

equipment

instructions

Stage 4: acidity

equipment

instructions