

# Evaporating liquids

## What you need

Clean containers, clean measuring cylinders, water, muslin, rubber bands, labels, teaspoon, magnifying glass or hand lens, salt, sugar, coffee granules.



Using the magnifying glass, draw diagrams of the three powders in the chart below.

Measure 20 cm<sup>3</sup> clean tap water into a measuring cylinder. Pour into a clean container and add one level teaspoon of sugar. Stir to dissolve the sugar. Label the container: *sugar*.

## SAFETY NOTE:

Normally you should not eat or drink while doing science activities. For this activity only it is allowed, but make sure all your equipment is clean.

Taste the liquid. Is the sugar still there? Where has it gone?

Repeat using the salt and coffee powders.

Cover the containers with muslin, and leave them in a warm place. Look at the contents every day, until all the liquid has gone.



What do you notice? Draw pictures of how they look now in the chart.

Salt	Sugar	Coffee
At the start	At the start	At the start
At the end	At the end	At the end

Carefully, taste the powder. Is the salt, sugar and coffee still present?

The salt, sugar and coffee dissolved in the water to make a solution. As the liquid is warmed it changes into water vapour and moves into the air. We say that the liquid has **evaporated**.

## EXTRA!

Both boiling and evaporation change water (a liquid) into a gas (water vapour). Use reference books to find out the difference.