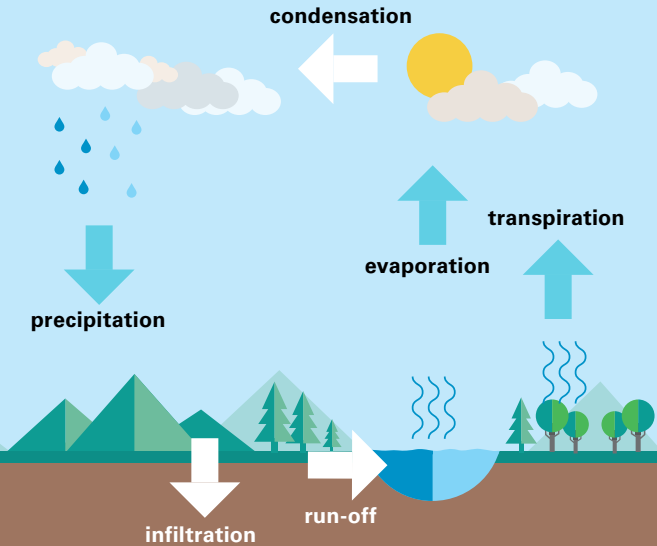


# Make a cloud



Our water moves through the natural water cycle. This is the flow of water around the world through the processes of **precipitation, infiltration, run-off, evaporation, transpiration** and **condensation**.

A cloud is water that has evaporated and then cooled down in the atmosphere to form water droplets (condensation). When the droplets get heavy enough they fall back down to Earth as rain (precipitation).

To find out more about the water cycle visit [sydneywater.com.au/education](http://sydneywater.com.au/education)

## Here's how you can make your own cloud to model evaporation, condensation and precipitation.

### What you'll need

- 1 glass jar with a metal lid
- Boiling water
- Matches
- Ice



### Did you know?

You can come behind the scenes and see how we manage parts of the natural water cycle to provide safe water for Sydney.

[See over the page to find out how you can book your free tour.](#)

### Make your cloud

**Safety first! You need adult supervision for this experiment.**

- Pour 2 cm of boiling water into the jar and gently swirl it to warm the sides.
- Turn the lid of the jar upside down and rest it on top of the jar. Place several ice cubes in the lid.
- Light a match and let it burn for a few seconds.
- Lift the lid of the jar and hold the lit match above the water.
- After a few seconds drop the match into the water (the smoke particles will give the water vapour something to condense onto).
- Watch your cloud form.



**Visit** one of our water filtration, wastewater treatment or water recycling plants to find out how Sydney Water makes water safe for almost 5 million people.

- Come behind the scenes with industry professionals and qualified teachers.
- See firsthand the operations and technology used in the treatment processes.
- Syllabus linked HSC Chemistry, HSC Earth and Environmental Science, Senior Science, Biology and general secondary science programs are available at selected sites.

## To book

**W** [sydneywater.com.au/education](http://sydneywater.com.au/education)  
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**T** 1800 724 650

Student and Teacher resources also available at [sydneywater.com.au/education](http://sydneywater.com.au/education)