

# Water evaporation experiment

**Have you ever seen water disappear in front of your eyes? How does this happen? Where does it go?**

When water is heated it turns into a gas called water vapour, which rises into the air.

Water vapour is mostly invisible, but sometimes we can see it as steam from a hot shower or boiling kettle.

This process is called **evaporation** and is part of the water cycle.



Try this experiment and explore how evaporation works and discover how water changes from liquid to gas.

## What you'll need...

- 2 glass jars
- Lid or aluminium foil
- Blue food colouring
- Marker
- Water
- Ruler



## Let's do this!

1. Fill two jars with equal amounts of water.
2. Add drops of blue food colour.
3. Mark the water level on each jar.
4. Put a lid on one jar and leave one without.
5. Place both jars near a sunny window.
6. Each day use a ruler to observe, measure and compare changes over time.



## Make a prediction!

What changes will I see in the two jars?

## What happened?

Was I right?  
What's happened in my jars?  
Did water disappear?  
How did this happen?  
Would more or less sun change my results?

Would you like to see how our experiment turned out?  
Visit [sydneywater.com.au/education](http://sydneywater.com.au/education)

# Does water disappear?

No it doesn't! Water doesn't really disappear forever, it just changes state.

## There are three states of water

solid - ice



liquid - water



gas - water vapour

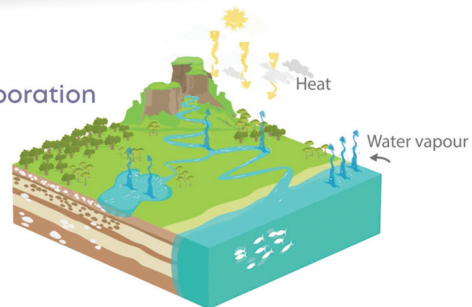


Water changes states as it moves through the water cycle.

There is a fixed amount of water on Earth and it continuously recycles from the Earth to the atmosphere and back again.

In fact, the water that you see today is the same water that existed on Earth billions of years ago.

### Evaporation



## There's lots to learn about water!

Visit [sydneywater.com.au/education](https://sydneywater.com.au/education)

## Are you a high school, tertiary or community group?

Visit [sydneywater.com.au/tours](https://sydneywater.com.au/tours) to book your behind the scenes experience.