

# Make a cloud



**Have you ever looked in the sky and wondered how clouds are made? How did they get there? What are they made of?**

When water vapour cools in the air they stick together and form tiny water droplets.

Clouds are made up of squillions of tiny water droplets. This process is called condensation and is part of the water cycle.



Try this experiment and watch a part of the water cycle in action.

## What you'll need...

**Safety first! Before you start ask an adult to help**

- 1 glass jar with metal lid
- Matches
- Boiling water
- Ice cubes
- Blue food colouring



## Let's do this!

1. Pour some boiling water into the jar.
2. Add food colouring.
3. Turn the jar lid upside down on top of the jar.
4. Put ice cubes in the lid.
5. Light a match - let it burn for a few seconds.
6. Lift the lid of the jar and hold the lit match above the water.
7. After a few seconds drop the match into the water, replacing the lid filled with the ice.
8. What can you see? Can you see a cloud?



## Make a prediction!

What will I see happening inside the jar?

## What happened?

Was I right?  
How did this happen?  
Would I get the same results without the ice?



Check out what we found in our experiment videos online.  
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# Have you ever thought about clouds?

We love them because they give us shade from the heat of the day and other times, they give us much needed rain, that:



- ◊ Fills up our dams, creeks and rivers
- ◊ Waters our plants
- ◊ Cleans our environment

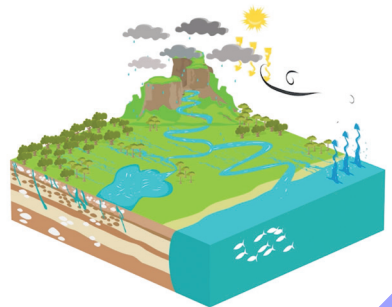
There are lots of different types of clouds, from white fluffy clouds to dark stormy clouds, but they are all made up of tiny water droplets.

Have you ever wondered how water gets in a cloud? When the sun heats the water on Earth it turns into water vapour and rises into the air.

This is called **evaporation**. As it cools they stick together and form tiny water droplets, which makes a cloud.

This is called **condensation**.

Evaporation, condensation and **precipitation** are part of the water cycle where Earth continuously recycles water from the atmosphere and back every day.



**There's lots to learn about water!**

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