

Make a cloud in a jar

Brief summary:

In this experiment you will make a real cloud in a jar.
WARNING: this activity needs boiling water - ask an adult to help you.

You will need:

- Help from an adult
- Glass jar with lid
- 50ml boiled water from the kettle
- Aerosol can (eg. hairspray)
- Ice

What to do:

Step 1. Boil the kettle and pour about 2cm of hot boiled water into the jar (get an adult to help you). Swirl the hot water in the jar so that it heats up the sides of the jar.

Step 2. Turn the lid of the jar upside down and rest it on top of the jar. Add several ice cubes to the lid and leave for several seconds.

Step 3. Take the lid off and quickly squirt in some hairspray (or whatever aerosol you're using). Put the lid - with the ice resting in it - back on top of the jar.

Step 4. Watch the cloud form inside the jar. When it is fully formed, take the lid off and watch the cloud escape.

Take it further:

How about making a tornado in a jar? Have a look at our *Tornado in a jar* experiment to find out how!

Big questions:

- How do meteorologists use air pressure?
- What is air made of?
- What role do trees play in keeping our air clean?

