

Have a go!

Experiment to create condensation.

You Will Need: A clear drinking glass, a freezer, a piece of kitchen roll or tissue paper, Workbook to record observations and a camera to record each stage (if you want to)!

You will try to recreate the evaporation / condensation effect at home.

Get a glass (clear if possible) wash and dry it thoroughly and then place it in the freezer (ideally without touching anything other than the bottom surface). After about an hour, take it out (carefully, it may be slippery) and place it onto a table or work surface making sure it sits on a piece of kitchen towel or similar absorbent tissue paper.

Look carefully at what your glass looks like and what begins to happen.

Keep checking your glass at 10 minute intervals for 1 hour afterwards, record what changes you see

Write down in your workbook what you observed, using as much detail as you can. Take pictures or video to upload to SeeSaw if you want to.

The Science behind this condensation

What you see happen is a little bit of a reverse / opposite of what happens in your bathroom. This time, the water vapour is already in the air (there is always SOME water in the air, which is what we call humidity).

We cooled our glass (similar to the mirror in the bathroom) and brought it out. The glass was colder than the surrounding air. Encouraging the water vapour molecules to cool down and form tiny, tiny beads of water - this is why the glass at first looks white... the 1000s of tiny beads of water.

Then, as time went on, the little water droplets got together to make bigger ones, which you could only see if you looked really closely at the glass or you could feel if you touched them. The little puddle is more and more of these droplets forming together to make a small puddle of water.

So the water on the glass and on now absorbed into the kitchen roll came from the AIR AROUND US and the cold glass caused it to condensate.