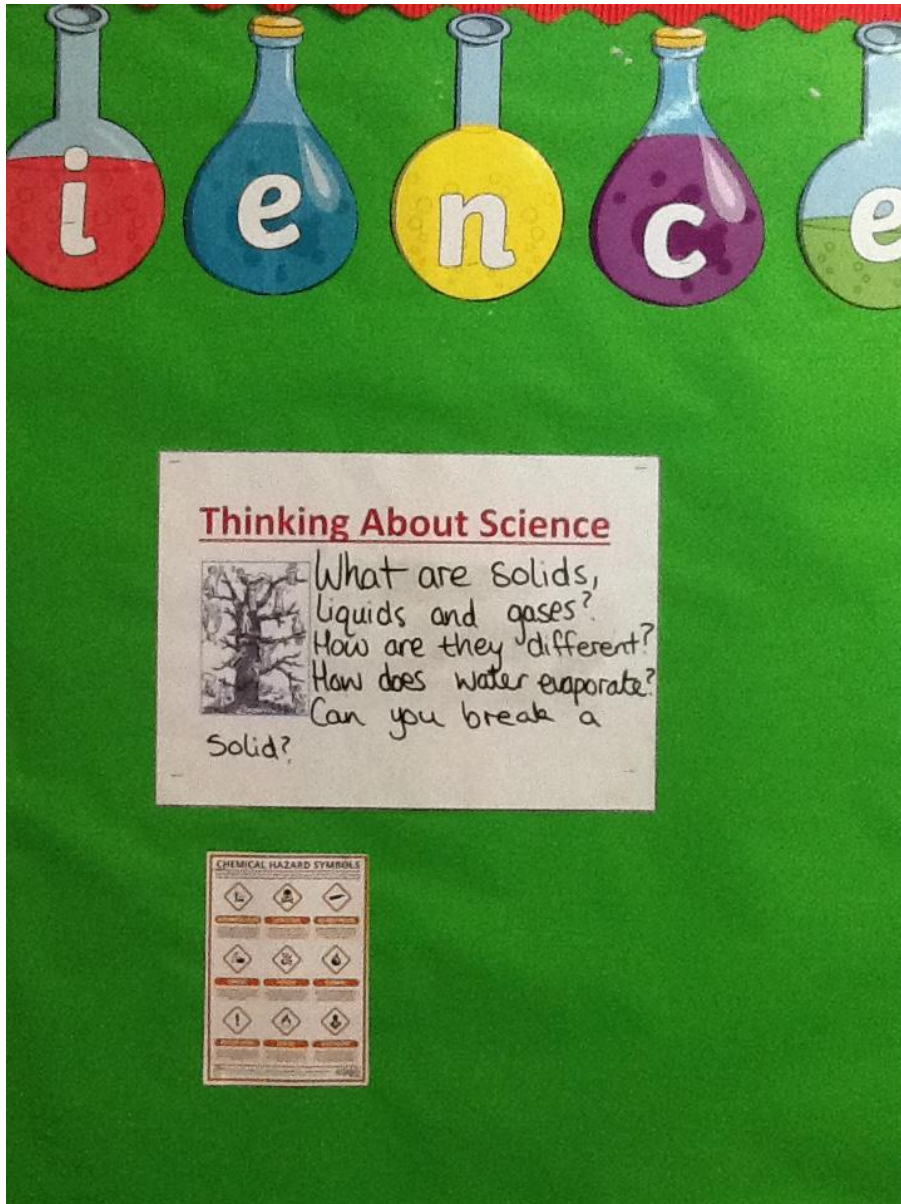


Year 4 States of matter

This half term in year 4 we have learnt about solids, liquids and gases. We have learnt about the water cycle and investigated the processes of heating and cooling.

During this experiment we measured the temperature of water after different periods of time to see how the temperature would change.












At the beginning of our topic we came up with some questions we wanted to answer through scientific investigation.

U. To investigate how water evaporates.

Evaporation Investigation

Does the Temperature Affect How Fast Towels Dry?

You can use the following equipment:

3 tea towels 	water 	measuring jug 	clock 
weighing scales 	three washing lines 		thermometer 

What will you do to find the answer to the question?

- How will you get the towels wet? Think about how to make sure they are equally wet.
The towels will all be submerged into the same amount of water.
- Where will you hang the towels? Think about places with different temperatures.
Classroom, outside and on radiator.
- When will you check the towels?
After 20 minutes.
- How will you know how dry they are? What will you measure or observe? Think about the most accurate way to find out how much water has evaporated. (If you choose to use the scales, you must weigh the tea towels at the start of the investigation.)
Weigh them at 0 minutes and after 20 minutes. The lighter towel will be the driest.
- How will you make sure your investigation is reliable? Think about what you will keep the same, and which one thing you will change.
The wetness and time will be the same. The location will be different.

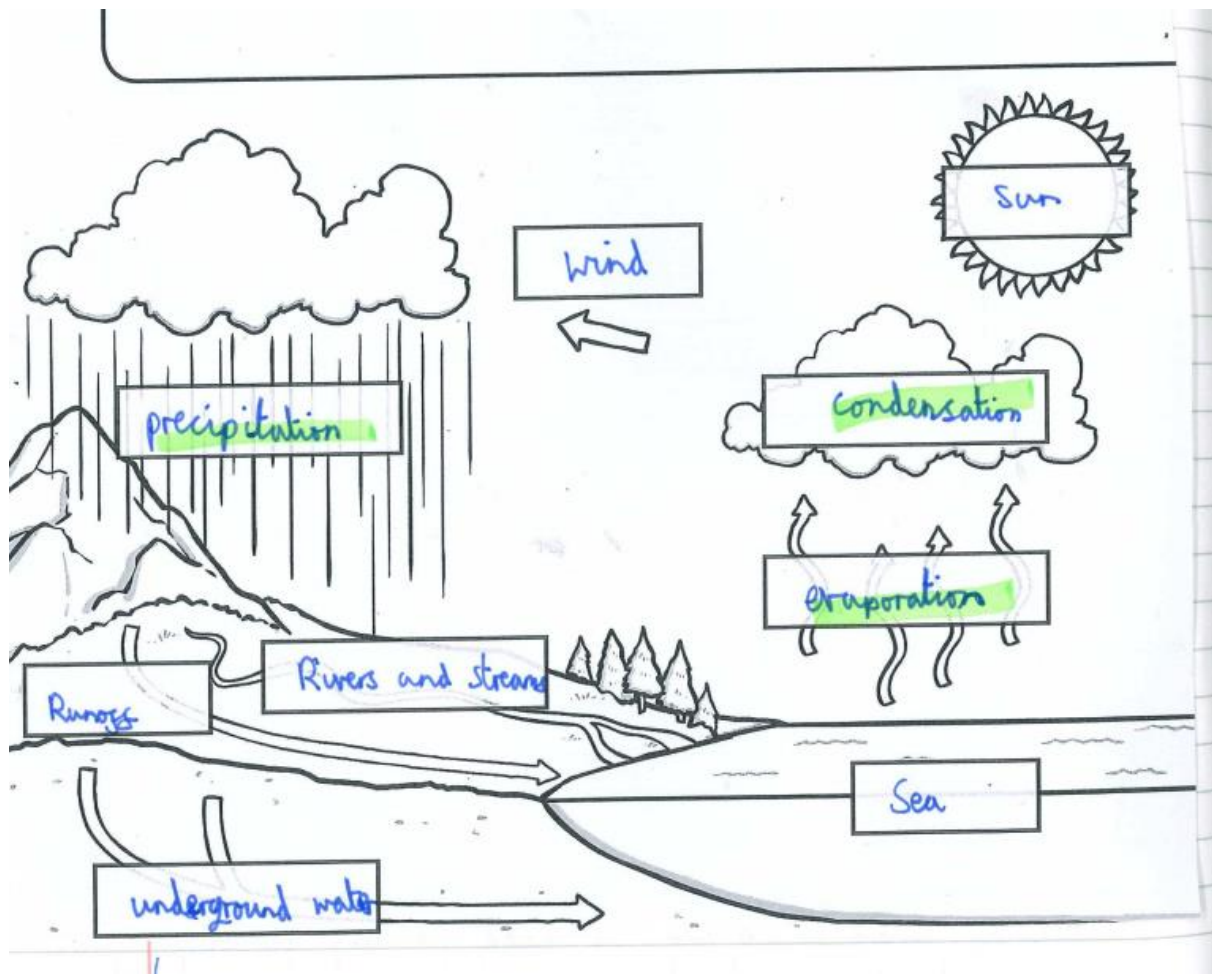
Write your prediction. Do you think the temperature will affect how fast the towels dry?

I predict that the towel ^{on} the radiator will dry quickest.

Carry out your investigation and record your results below.

	Temperature it was hung up in	How wet it was at the start of the investigation	How wet it was at the end of the investigation
Towel 1	20°C	25g very wet	15g
Towel 2	25°C	25g very wet	22g

We carried out an investigation to see if temperature affected how fast something dries. We found that the warmer the room the quicker the water evaporated from the wet towel.



We learnt what the water cycle is and made diagrams to show the process.