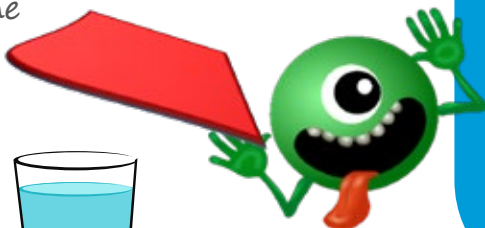
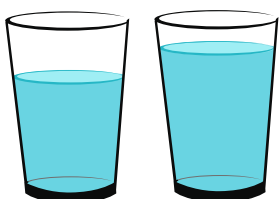


# How does water get into clouds?



I put two cups of water on my windowsill. Both contained the same amount of water. I gave one a lid. A few days later... Now look! Where did the missing water go? Which one had the lid?



## Predict, Observe, Record

Dampen two towels or small pieces of cloth. Put one somewhere you predict it will dry quickly. Put the other where you predict it will take longer.



Record the locations. Record how long it takes them each to dry.

# How much does a cloud weigh?

Firstly science helps us to understand what a cloud is.



Water evaporates from puddles, lakes and even a damp towel!



We can't solve this puzzle with science alone – we will need science AND maths!

The water condenses into droplets.



The water is hidden in the air – like water hidden in a sponge.

It's called water vapour.



The water vapour rises with the air currents.

It's cooler higher up.

Like the condensation on a cold window pane.



Each droplet is so tiny it can float on air.



There's about 1/2 gram of water in a cubic metre of cloud.



The water in a cloud weighs about the same as 100 elephants.



The mass of an elephant is about 5000 kg.



A summer cloud is about 1km \* 1km \* 1km.

