



Today Science Club are going to

Make WEATHER!

Can you think of different types of weather?

Clouds

Every day the **sun** heats up **water** from the sea and rivers. This makes tiny, invisible drops of **moisture** that rise up into the air. As the warm air rises, it cools down. The tiny drops of moisture turn into millions of larger drops of **water** which join together to make **clouds**.

Let's make clouds....

We have hot water at the bottom of the jar which makes droplets that rise and cool near the ice on the upturned jar lid. We drop in a match to give something for the cloud to form around.



Lightning!

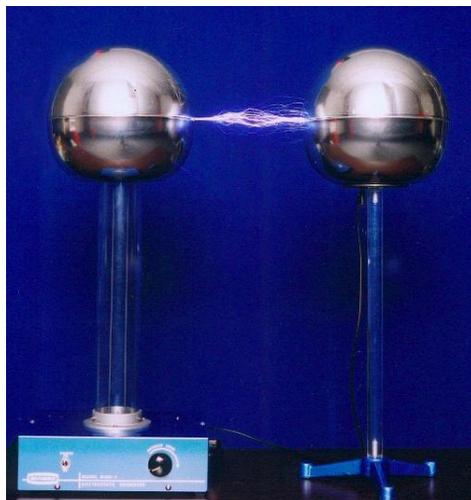
When the weather is bad, electricity builds up inside a cloud. Lightning is a giant spark of electricity escaping.

Let's make lightening....

We are using a special machine called a Van der Graaf generator. Electricity builds up at the top then escapes when something comes near it.

Note: There have been no recorded injuries using generators, see link for background:

www.nuffieldfoundation.org/practical-physics/van-de-graaff-generator-safety



Note to parents: Good weather experiments here: www.weatherwizkids.com/weather-experiments.htm. Science Club members who attended most club sessions will have a British Science Association's CREST Star Investigators Award certificate. In Beavers Scouts they automatically get the Experiment Activity badge. We hope your young learners have enjoyed science club. Any questions: HassellScienceClub@gmail.com