

CLOUDS IN A JAR

SUPPLIES:

- Jar with a lid (like a mason jar)
- 1/3 cup of hot water
- Ice cubes
- Hairspray



PROCESS:

Start by pouring the hot water into the jar. Swirl it around a bit to warm up the sides of the jar.

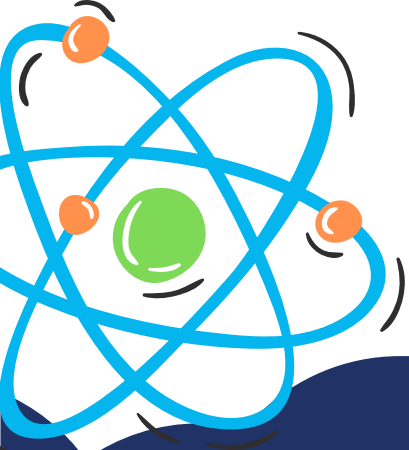
Turn the lid upside down and place it on top of the jar. Place several ice cubes onto the lid and allow it to rest on the top of the jar for about 20 seconds.



Remove the lid, quickly spray a bit of hairspray into the jar, and then replace the lid (with the ice still on top). Watch the magic happen and see the cloud start to form!

When you see a good amount of condensation form, remove the lid and watch the "cloud" escape the jar.





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HOW DOES IT WORK?

When you add the warm water to the jar, some of it turns to water vapour. The water vapour rises to the top of the jar where it comes into contact with cold air (thanks to the ice cubes on top of the lid). When cool, water vapour condenses. However, a cloud can only form if the water vapour has something to condense on to. In the case of this activity, the water vapour condensed onto the hairspray!

