

Stem Challenge

A cloud is formed when water vapor condenses into water droplets that attach to particles (of dust, pollen, smoke, etc.) in the air. We should know this from when we looked at the water cycle in class together.

You may need an adult at home to help you with this experiment. If you manage to make a cloud make sure and take a picture for your blog! Good Luck!

You will need the following materials:

- A jar with lid
- About 1/3 cup hot water
- Ice
- Hairspray

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 the 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.



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

