



CLOUD IN A BOTTLE

Ingredients

- 2-Liter Bottle
- Water
- Matches

Science Terms

- **Cloud** – A cloud is a collection of millions of tiny water droplets or ice crystals.
- **Precipitation** – Any form of water that falls to the Earth's surface from the clouds.

Instructions

STEP 1: Add a small amount of warm water to the 2-liter bottle.

STEP 2: With an adult present, light a match, and then quickly place the match into the bottle. Screw the cap onto the bottle.

STEP 3: Using your hands, squeeze the sides of the bottle about six times.

STEP 4: Squeeze the bottle one more time, but this time don't let go for a few seconds. Look closely at the bottle and then let go.



Explanation

You just created an atmosphere perfect for cloud development. The water vapor inside the bottle attached to the smoke particles produced by the match. When you squeezed the bottle you increased the air pressure. When you let go you decreased the air pressure, which cooled the air and created the cloud in your bottle.

HOOKED ON SCIENCE DISCLAIMER

Each Hooked on Science experiment is safe to perform with an adult present. If not performed correctly the experiment could be dangerous. Jason Lindsey, Hooked on Science, and ALL Hooked on Science affiliates expressly disclaims all liability for any occurrence, including, but not limited to, damage, injury or death, which might arise as consequences of the use of any experiment(s) online or on air. The guardian of the child and the performer of the experiment assume all the liability and will use these science experiments at their own risk!