



Water Cycle (6-8 Version) Activity for Kids

Cloud in a Bottle DIY

 Duration: **20 min**

 Difficulty: **Medium**

 Cost: **\$0 to \$10**

Learn how to form a cloud in a bottle!

Material List

- 1 2-liter Plastic Bottle
- 1 Bottle of Rubbing Alcohol
- 1 Cork
- 1 Pump with an Inflating Needle
- 1 Pair of Safety Glasses

Instructions

- 1 Carefully push the inflating needle through the cork (adult help may be needed).
- 2 Pour a little bit of rubbing alcohol into the bottle and swirl it so that the liquid coats the entire inside. Rubbing alcohol is flammable, so make sure to keep it away from any flames.
- 3 Insert the cork into the bottle and give it several pumps. The more pumps you add the better it will work.
- 4 As quickly as you can, remove the cork and watch the cloud form!

How It Works

We used rubbing alcohol because it evaporates faster than water and creates a more visible cloud. Pumping air into the bottle squeezes the molecules of gas closer together. When you pull out the cork, the gas expands and cools down, making the vapor condense into tiny liquid droplets, just like a cloud! The process of gas turning into a liquid is called condensation.

