

The Air Around You

Section: Properties of Matter; Topic: States of Matter

Name: _____

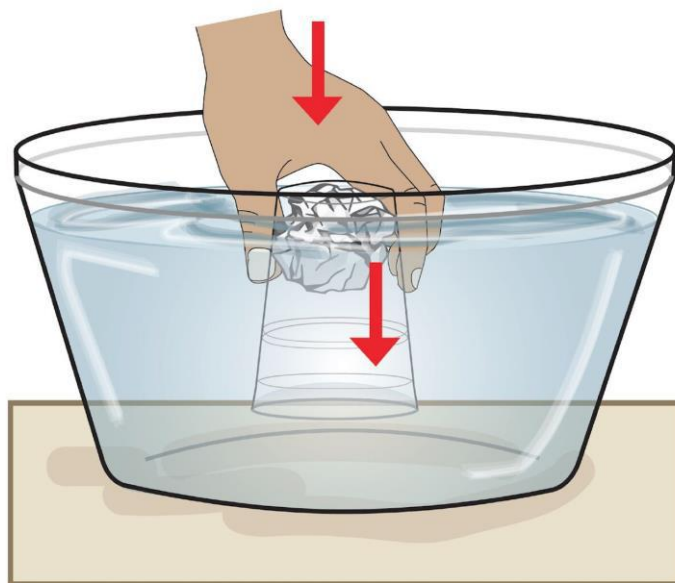
Date: _____

Inquiry Question

Write down what you'll be learning today! What do you want to understand?

Procedure

1. Crumple a paper towel into a ball and push it to the bottom of the cup until it stays in place. The paper towel should not fall out when the cup is inverted. Tape it to the cup if necessary.
2. Fill a deep bowl with enough water to submerge the cup.
3. Turn the cup upside down and push it straight down into the bowl of water, but be sure to not let the cup touch the bottom. Hold the cup still while it is submerged in the water for a few seconds.
4. Pull the cup straight out of the water and feel the paper towel. Record your observations.



Observations, Data Collection & Analysis

Write down your observations below.

1. What happens when you push the cup down in the water? What does the water do?

2. Why can we fully submerge a cup in water and still have a dry paper towel?

3. When you pull the cup out of the water, is the paper towel wet? Why or why not?

4. If there is not any water in the cup, is the cup empty?

5. If you place the cup into the water at an angle, will the result stay the same? What do you notice is different when you do this? Is it easier or more difficult to push the cup down at an angle? Why?

6. In what other ways or situations can it be seen that air takes up space? What other proof is there that air is a type of matter and takes up space?
