



Name: \_\_\_\_\_

**Subject:** Science/Physics

**Key Concepts:** air pressure, pressure

### **Try this at Home: Turn Things Upside Down!**

Watch this Wonderama Video on YouTube: [Turning Things Upside Down, Cool Science With Rachel](#)

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### **Words to Learn**

**Pressure:** the force that a gas, liquid or solid exerts on another

**Air Pressure:** the weight of air

**Seal:** something that closes tightly

### **What You Need:**

- 1 clear jar
- Water
- 1 piece of cardstock
- Large bowl, bucket or sink

### **What to Do:**

1. Pour a little bit of water (about an inch) into the jar
2. Put the piece of cardstock over the top of the jar and hold it there.
3. Move the jar over the bowl/bucket/sink.
4. Slowly turn the jar upside down, keeping your hand on the cardstock.
5. Once the jar is completely upside down, carefully remove your hand from the cardstock.
6. After a few minutes remove the card, and see what happens!

***Bonus!*** Try this experiment with materials other than cardstock, like paper, cardboard or a napkin to see if you get a different result!

## What You Learned:

1. Use the words **seal** and **pressure** to fill in the blanks to explain how and why the cardstock stuck to the jar.

The water and the cardstock formed a tight \_\_\_\_\_ that wouldn't let anymore air into the jar. Because of this, there was low air \_\_\_\_\_ inside the jar.

The air \_\_\_\_\_ outside of the jar was higher and stronger, so it pushed the cardstock up, holding it in place. When the cardstocked was removed and air was let in, the air \_\_\_\_\_ inside the jar balanced out with the air outside of the jar, causing the water to fall out of the jar!

2. What surprised you most about this experiment?

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