



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

**Subject:** Science/Chemistry/Biology

**Key Concepts:** osmosis, absorption

### **Try this at Home: Bounce an Egg!**

Watch the Wonderama Video on YouTube: [How To Bounce An Egg with Cool Science with Rachel](#)

*(If needed, use the video title to search for this video)*

### **Words to Learn**

**Acetic acid:** a chemical found in vinegar

**Calcium Carbonate:** a white, odorless chemical; most of an eggshell is made of calcium carbonate

**Osmosis:** the process through which water passes through a membrane

**Absorbed:** took something in

### **What You Need:**

- 1 raw egg
- Plastic or Clear Container with a lid
- Vinegar
- Flashlight (optional)

### **What to Do:**

1. Carefully place the egg inside the container.
2. Pour vinegar into the container with the egg, making sure to cover the top of the egg.
3. Put the lid on the container.
4. Put the container in the refrigerator for at least 24 hours.
5. After 24 hours, take the container out of the refrigerator and remove the egg.
6. Bounce the egg!!! (But not so hard!)

**Bonus!** Turn off the light and use a flashlight to look inside the egg and see the runny yolk.

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

## What You Learned:

1. Use the words below to fill in the blanks to explain how and why the egg bounced.

**Acetic acid**

**Osmosis**

**Calcium carbonate**

**Absorbed**

The \_\_\_\_\_ in the vinegar broke down the \_\_\_\_\_  
that the eggshell is made of. Then, through the process of \_\_\_\_\_,  
most of the vinegar passed through the egg's membrane, and was \_\_\_\_\_  
into the egg.

2. What surprised you most about this experiment?

---

---

---

---