



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

**Subject:** Science/Chemistry

**Key Concepts:** surface tension

### **Try this at Home: Surface Tension Collage!**

Watch the Wonderama Video on YouTube: [STEM Queen Jacqueline Means Gets Creative on Our Sets!](#)

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

### **Words to Learn**

**Surface Tension:** the ability of a liquid to allow objects to float on top of it

**Chemical Reaction:** a process in which two different substances are mixed together, and atoms rearrange and create a new substance

**Tissues:** groups of cells in the body that work together and do the same thing

**Particles:** tiny pieces of matter that make up everything in the universe

### **What You Need:**

- Plate (waterproof)
- Milk
- Food Coloring
- 2-3 Cotton Swabs
- Dish Soap
- Vinegar (optional)

### **What to Do:**

1. Pour milk onto the plate so that it covers most of the plate.
2. Add about 15-20 drops of food coloring to the middle of the plate. (You can use one or many colors.)
3. Dip the cotton swab in the dish soap, and then place the cotton swab into the food coloring that's in the middle of the plate.
4. Watch what surface tension does to the food coloring!

**Bonus!** *Try this experiment with vinegar instead of milk to see if something different happens!*

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## **What You Learned:**

Use the words below to fill in the blanks:

**chemical reaction**

**surface tension**

When the dish soap was added to the milk and food coloring, it caused a \_\_\_\_\_

which reduced the milk's \_\_\_\_\_ .

What surprised you most about this experiment?

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