

## States of Matter

# Slime

### 1. Eureka! States of Matter: Liquids

#### Introduction

- Slime is a substance that has some properties of a solid, and some properties of a liquid.
- These types of substances are called **colloids**.
- Popular colloids include milk, mayonnaise, Jello, and even whipped cream.
- There are many different types of slime and many different recipes. They also have different names.
- To make Oobleck, mix water and cornstarch together.
- We will be making Glurch, or Flubber, which is made with Borax, glue and water-and I call Slime

#### Materials

- 40 mL water
- 20 mL white glue
- 2 drops food coloring
- 15 mL Borax (white powder)
- Small baggie
- 100 mL beaker
- 50 mL graduated cylinders
- 25 mL graduated cylinders

#### Before you start

- Be sure that you only put the glue in the beaker that says "glue"
- AND the water in the graduated cylinder that says "water"
- It's important that the graduated cylinder for the borax stays completely dry. (DO NOT WASH OUT AT THE END OF THIS LAB!)
- Look over all the lab materials/equipment to be sure you know what materials can go into what equipment

#### Procedure: part 1

1. Clean all materials thoroughly.
2. Measure 20mL glue in a 100 mL beaker.
3. Measure 20mL water in a 50 mL graduated cylinder.
4. Add the water to the glue and mix with a stir rod.
5. Add both to a small baggie.
6. Get 2 drops of food coloring from Mrs G.
7. Seal bag (double check, make sure it is closed).

### *Procedure: part 1*

- 8. Gently knead bag until thoroughly mixed.
- - *Record observations in row 1 of your data table.*

### *Procedure: part 2*

- 9. Measure 20 mL water in a graduated cylinder pour into the CLEAN 100ml beaker
- 10. Measure 15 mL borax (white powder) into a 25 ml graduated cylinder (use scoopula).
- 11. Add the borax to the water and stir until mostly combined.
- 12. Immediately, add both to the baggie and seal completely.

### *Procedure: part 2*

- 13. Mix until there is no liquid - be careful not to break the bag!
- - *Record observations in row 2 of your data table.*

### *Procedure: part 3*

- WHEN YOU HAVE MADE YOUR SLIME....
- 14. CLEAN UP EVERYTHING!!!!
- When you are done cleaning your desk/station - raise your hand to get a stamp

### *Analysis Questions & Conclusion*

- Be sure to complete these to get full credit!