



# Slime Lab \_\_\_/30 pts

1 pt ec printing



**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** (KAWL oydz). 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 spoon
- white plastic cup marked H<sub>2</sub>O & Borax
- small beaker labeled Glue
- 50 mL graduated cylinder labeled H<sub>2</sub>O
- 25 mL graduated cylinders labeled BORAX

**Procedures:** Check off your procedures as you complete each step. (2pts)

### Part 1

- \_\_\_\_\_ 1. Clean all materials thoroughly.
- \_\_\_\_\_ 2. Measure 20mL glue in the labeled GLUE beaker.
- \_\_\_\_\_ 3. Measure 20mL water in a 50 mL graduated cylinder labeled H<sub>2</sub>O
- \_\_\_\_\_ 4. Add the water to the glue and mix with white spoon.
- \_\_\_\_\_ 5. Add both to a small baggie.
- \_\_\_\_\_ 6. Get 2 drops of food coloring from Mrs Gillum.
- \_\_\_\_\_ 7. Seal bag (double check, make sure it is closed).
- \_\_\_\_\_ 8. Gently knead bag until thoroughly mixed. - *Record observations in row 1 of your data table.*

### Part 2

- \_\_\_\_\_ 9. Measure 20 mL water in the labeled H<sub>2</sub>O graduated cylinder and pour the water into the CLEAN white plastic cup marked H<sub>2</sub>O & Borax
- \_\_\_\_\_ 10. Measure 15 mL borax (white powder) in the labeled Borax 25 ml graduated cylinder
- \_\_\_\_\_ 11. Add the borax to the water and stir until mostly combined.
- \_\_\_\_\_ 12. Immediately, add both to the baggie and seal completely.
- \_\_\_\_\_ 13. Mix until there is no liquid - be careful not to break the bag! - *Record observations in row 2 of your data table.*

### Part 3

- \_\_\_\_\_ 14. CLEAN UP EVERYTHING!!!! When you are done cleaning your desk/station - raise your hand to get a stamp:  
(2 pts)

**Observations**

<b>Observations - use all of your senses but taste!!!! (3 pts each )</b>	
<b>Part 1</b>	
<b>Part 2</b>	

**Analysis & Conclusion** (Questions 1-5, 2 pts each=10 pts)

- Oobleck is made by combining: Solid, liquid or gas?
  - Water \_\_\_\_\_
  - Borax \_\_\_\_\_
  - Elmer's Glue \_\_\_\_\_
  - Food coloring \_\_\_\_\_
- Press your slime into a ball. Let it sit on your table for a couple of minutes and observe. What do you see? \_\_\_\_\_  
\_\_\_\_\_
- Put a small object like a paperclip on the slime. Let it sit for a while. What happens? \_\_\_\_\_  
\_\_\_\_\_
- Overall, does the slime behave like a solid, liquid or gas? Explain WHY you think that.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Do you think your slime is an element, compound, or mixture? \_\_\_\_\_

**Element** - any substance that cannot be broken up into simpler substances by chemical means  
**Compound** - a substance formed when atoms of two or more elements join together  
**Mixture** - a material consisting of two or more substances that are not chemically bound to each other and can be separated

6. **5 sentence** conclusion: (10pts) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_