

SLIMY SCIENCE: OOBLECK & FLUBBER

The Scientists: Mrs. Kenworthy and a Fabulous Fifth Grader

The Scientific Method:

1. We Wonder if... (We're curious about something...We have a question...)
2. Our Hypothesis is... (This is what we think will happen if we...)
3. We Plan an Experiment (Procedure and Materials)
4. We Look at the Results
5. We make our Conclusion (Were we right?)

1. I wonder if... oobleck and flubber are solids or liquids.

What do I know about the properties of solids and liquids?

Properties of Solids	Properties of Liquids
<ul style="list-style-type: none"> • keeps its shape • volume stays the same 	<ul style="list-style-type: none"> • takes the shape of its container • volume stays the same

2. My hypothesis is...that oobleck and flubber are solids.

3. I Plan an Experiment:

The Procedure:	
Step 1:	Make Oobleck: <ul style="list-style-type: none"> • Mix 2 cups Corn Starch + 1 cup of Water + several drops of green food coloring
Step 2:	Make Flubber: <ul style="list-style-type: none"> • Solution A: Mix $\frac{3}{4}$ cup White Glue + 1 cup Water + several drops of blue food coloring • Solution B: Mix 3 Tablespoons Borax + 1 cup Water • Mix 1 cup of Solution A + $\frac{1}{3}$ cup of Solution B
Step 3:	See if it keeps its shape in different containers.
Step 4:	Write down my observations

The Materials I need:

- Corn Starch
- Water
- Food Coloring
- White Glue
- Borax
- 4 Bowls
- Measuring cups
- Tablespoon

4. I Look at the Results:

Flubber	Oobleck
<ul style="list-style-type: none"> • Takes the shape of whatever container it is in • Bounces and Stretches • Softer than Oobleck • Easier to move from one container to another, and so it takes less time. It stays together when you pick it up. • Feels like a liquid 	<ul style="list-style-type: none"> • Takes the shape of whatever container it is in • Doesn't bounce • Gets tough in the bag or container, but if you try to hold it in your hand, it drips out of your hand. • Hard to move from a bowl - have to chip and scrape it out in pieces

5. My Conclusion is...

Oobleck and Flubber seem like a solid when they are in a container, but seem like a liquid when holding them. They take the shape of whatever container they are in, and so I think they are more like a liquid than a solid.

Maybe next time... I will try using less water in the Oobleck and see what happens.