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DIY ACTIVITY

MAKE YOUR OWN SLIME GRADES 3-5

OBJECTIVES

- Follow directions to measure and mix appropriate quantities of various materials to create slime.
- Explore the properties of the materials used to make slime as well as the properties of the finished product.

PROCEDURE

 **AS A CLASS, WATCH THE GENERATION GENIUS PROPERTIES OF MATTER VIDEO.**

1. Measure $\frac{1}{2}$ cup water and $\frac{1}{2}$ cup glue in first bowl. Mix with whisk.
2. Measure 1 tsp. borax and $\frac{1}{2}$ cup water in other bowl. Mix with spatula.
3. Add borax water to glue water. Mix with whisk until ingredients are combined into a slimy consistency. You can mix in some food coloring if desired.

WHAT IS GOING ON HERE?

The materials used to make slime undergo a chemical reaction that results in the rubbery, stretchy texture of the new material. Glue - an opaque, sticky thick liquid - dissolves in water to form a milky liquid. Borax, a white powder, also dissolves in water. When mixed, these two substances react chemically to form a new material that does not dissolve in water.

FURTHER EXPLORATION

Think about the properties of the materials used to make slime. Is glue soluble in water? (yes) Is borax soluble in water? (yes) Are the properties of the final product (slime) different than the properties of the materials from which it's made? (yes, the slime has its own unique properties). In your science notebook, describe the properties of the slime. Is slime soluble in water? (no) Is slime more or less dense than water? (more dense—it sinks) Try forming the slime into a ball and dropping it to see whether it bounces. Slime has elastic properties, too! If possible, try mixing iron powder into your slime to create slime that is attracted to magnets. You can also experiment with mixing in other materials to see how they change the properties of the slime.

MATERIALS NEEDED

- Measuring cup
- 1 cup water, divided
- $\frac{1}{2}$ cup washable glue
- 1 tsp. borax powder
- 2 mixing bowls
- Silicone spatula
- Whisk
- Food coloring (optional)
- Iron powder (for magnetic slime--optional)

Activity Duration: 20-30 minutes