

## Scientific Method - Gak Lab

Purpose: Using scientific method, the student will produce a bouncier polymer.

Materials: Glue, Beaker, Graduated cylinder, Tong press, Food color, Borax solution, and independent investigation write up paper.

Safety: Safety glasses

Teacher's Demonstration:

1. In 250 ml beaker add 40 ml glue then add 25 ml of water.
2. Stir until uniform consistency
3. Add 1 or 2 drops of food coloring and stir.
4. Stir as adding 5mL of borax solution (saturated) slowly.
5. Take out the stirrer (tongue depressor) and examine with the product. Rolling product in hands will move all moisture.

Problem: I would like to make the new polymer I created bouncier. I have seen someone make a gak ball and bounce it. How would I go about doing this?

**Please complete the independent investigation write up paper using the given problem/question above.**

Questions: 1. What solidified the mixture? 2. Why is the scientific method sometimes called "Trial and Error"?