

Name(s): _____ Hour: _____ Date: _____

Which recipe will make the best flubber?

You will need to determine which is the best recipe for synthesizing flubber. The unique properties of a mixture can be changed by the amount of each ingredient - borax and glue- used to make them.

1. Observe a small sample of the main ingredients borax and glue.
 - a. What does the Borax look and behave like?

 - b. What does the Glue look and behave like?

2. What is the origin of these materials? Are they naturally occurring or manufactured?
 - a. Borax:

 - b. Glue:

3. Gather the following materials if they are not already set up in lab stations:
 - Borax Solution
 - 4 Cups
 - Craft sticks or Spoons
 - Glue
 - Permanent Marker

4. Label four cups: A, B, C, D
5. Add the white glue to each cup according to the amounts labeled in the data table below.
6. To cup A, add two spoonfuls of borax solution and stir the solution with the wooden stick
 - a. What is happening to the mixture as you stir? Write your observations in data table.
6. Take the flubber out of the cup.
 - a. What does it feel like? Does it bounce or stretch? Write your observations in the table.
7. Repeat steps 6 and 7 for the rest of the cups remember to record your observations in the data table
8. Clean up your area by following your teacher's directions and answer the rest of the questions on the back of this paper.

Data Table:

	Spoonfuls of Glue	Spoonfuls of Borax Mix	Observations during the 'manufacturing' process	Observations of the Flubber
Cup A	4 spoonful	2 spoonfuls		
Cup B	5 spoonfuls	2 spoonfuls		
Cup C	6 spoonfuls	2 spoonful		
Cup D	7 spoonfuls	2 spoonful		

9. What properties of the flubber change as the amount of glue used increases?

10. Which recipe makes the bounciest flubber? What are the properties of the 'best' flubber?

11. How are the properties of the flubber different than the borax and glue?

12. What name will you give your bouncy flubber?