Science Fair Logbook

Name: Sophia~Aiza

Testable Question

How does _____ affect _____?

What is the effect of _____ on _____?

Which _____ is/does/makes/etc _____?

How Do Different Activators Impact The Stretchiness Of Slime?

Tittle: Stretchy or Stiff?

Background Information

What questions/information do you need to find out about your topic? What is some important vocabulary?

To make slime you need to put some glue in a bowl and then add activator like tide, liquid starch, saline solution which are the ones we used. Then you mix it together and it makes this slime kind of a gooey texture. But you have to make sure you don't add too much activator because it will be stiff and if you don't add enough activator it will become to stretchy, so you have to do your measurements correctly otherwise it can turn out to not be slime at all. The slime is made with non toxic ingredients to make sure it is safe to play with.

Background information slide 2

There are many different types of slime the one we are going to be making is plain white glue slime. We will not be adding any charms, colors, scents or glitter as that may affect and results to how stretchy it is. Now we will talk about how slime was created and what year is was made and who made it. Mattel toys created slime February 1976. When they made is it consisted of a non toxic squishy gooey green substance. Mattel toys created slime February 1976. When they made is it consisted of a non toxic squishy gooey green substance.

Topic:

Write about the topic you chose. Why did you choose this topic? What do you hope to find out?

We chose this question because we love making slime and wanted to know what activator works best so we chose three types of activator and we are going to see which one make the least stretchy slime but we also don't want it to be stiff. We also know that lots of other kids like slime to so we want to provide them with information as well.

Variables

Manipulated / Dependent Variable

ONE thing that you will test/change:
The thing we will be changing is the type of activator

Responding / Independent Variable

The thing I think will change or be affected: We think that the stretchiness will affected if we changed the activator

Variables

Controlled Variables

We have to make sure that we keep all the measurements the same and make sure that the same amount of activator is the same and as well as the glue.

Hypothesis

Your prediction, or what you think will happen:

If _____ then _____ because _____.
(I do/change this...) (I think this will happen) (Why?)
*use info from your research or background knowledge to help explain)

If we use three different activators we think that some slimes will be stretchy or some will be more stiffer and some will be in the middle which normal slime should be like. We think this because Not all activators are the same and some react differently, since some are weaker and some are stronger, we think that the weaker activators will make the slime a bit stretchy and the stronger activator will make stiffer slime.

Materials

What materials will you use for your experiment? Be specific about amounts whenever possible.

For this experiment the materials i will need are.....

White glue
Liquid starch
Saline solution
borax
3 mixing spoons
3 bowls
Measuring cups

Procedure

List the step-by-step procedure you will follow to conduct your experiment. Be as specific as possible and include exact measurements, quantities, times, etc.

1: Put one cup of glue in each bowl
2: Add 4 tablespoons of activator to each bowl
3: Mix each one until the activator is fully mixed in
4: Stick the slime to my hand
5: wait for the slime to fall
6: see how long it took to fall off
7: write down the data

Experiment: Trial 1

Date:

Data: (measurements)

Saline solution slime	1 cup (0.64 sec)
Borax slime	1 tablespoon (didn't stick to my hand at all)
Liquid starch slime	3 tbsp 5 sec

Observations:/Notes
The borax slime was over activated every time and the saline slime was a water slide and was very glossy

Experiment: Trial 1

Photos:

Liquid starch slime
slime

borax slime

Saline solution

Experiment: Trial 2

Date:

Data: (measurements)

Saline solution slime	1 cup (0.64 sec)
Borax slime	3 tsp (not stick)
Liquid starch slime	3 ½ tbsp 4 sec

Observations/Notes:

Experiment: Trial 2

Photos:

Liquid starch slime

borax slime

Saline solution slime

Experiment: Trial 3

Date:

Data: (measurements)

Saline solution slime	1 cup (0.65 sec)
Borax slime	2 tsp ¼ tsp no stick
Liquid starch slime	4 tbsp 7 sec

Observations/Notes:

Experiment: Trial 3

Photos:

Liquid starch slime

borax slime

Saline solution slime

Results: Chart

Put your data together into a chart.
Example: (you can change the chart)

Saline solution slime			
Liquid starch slime			
Tide slime			

observations

Well I was testing the saline solution slime was taking longer to mix than the borax was. After one night the borax slime was still put together but the saline solution slime had a really foggy and weird liquid on top but the glue under the liquid was still slime so I mixed it together and it took 5 minutes to mix together. The liquid starch slime was a lot stronger than i thought it activated a lot faster.

Results: Analyze

Look at your data and observations. Look for patterns and trends. Explain what happened in your experiment and what you found out:

We found out that borax was stronger than everything else because the borax took the least amount of borax to make the slime were the saline solution took a lot of it. So that means that in order the borax is the strongest and the liquid starch would be in second and then saline solution took the least amount of activator.

Results: Graph

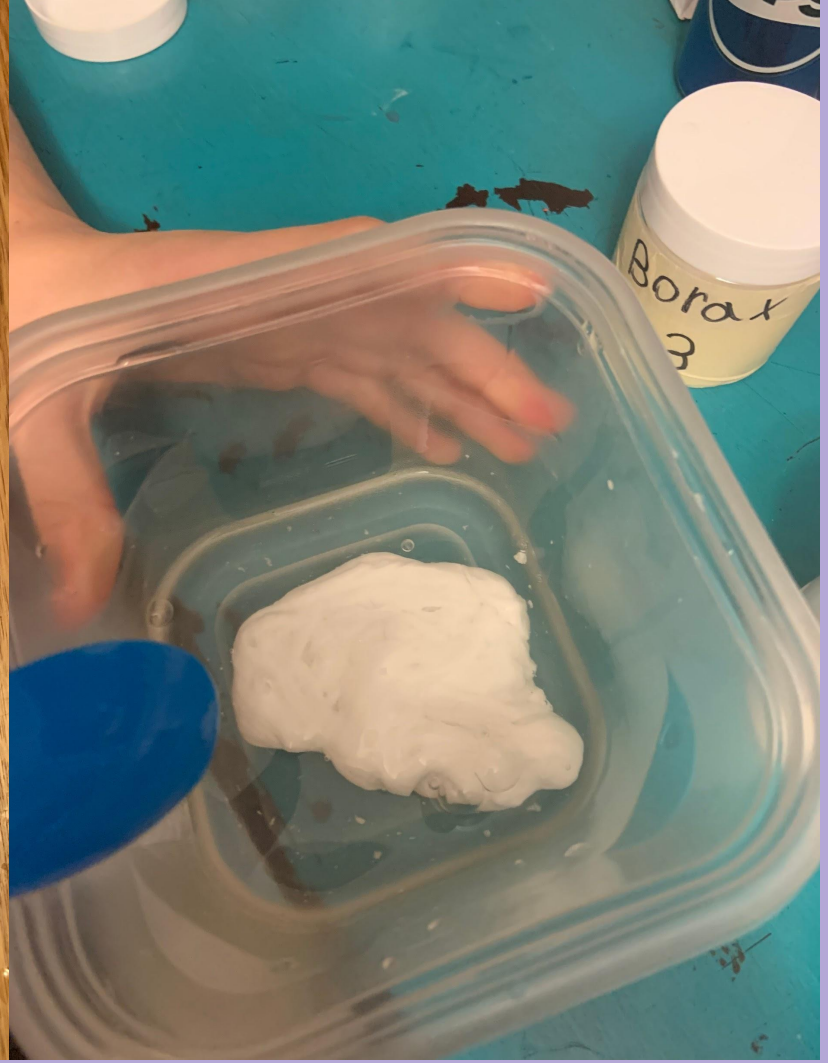
Graph your data for a visual display of your results.

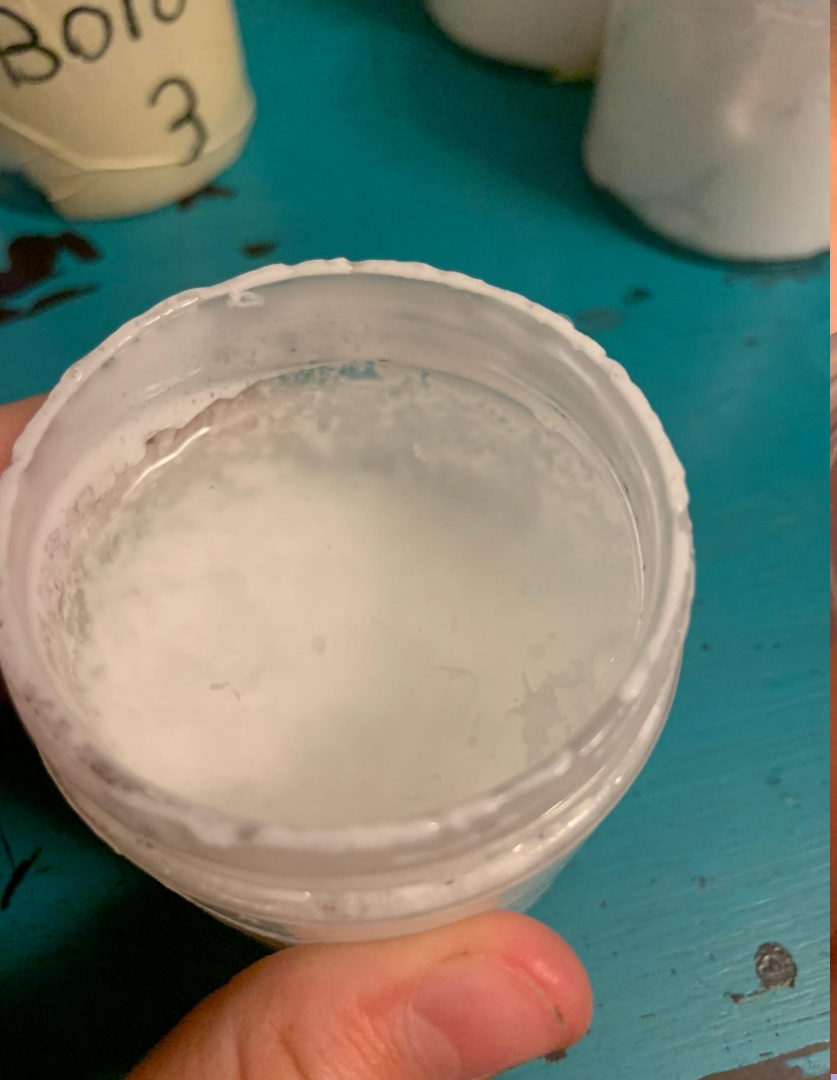
Use Google Sheets or another website and copy the graph onto this slide, or draw by hand and upload a photo.
Ask your Science Fair teachers for help if you need it!

Pictures


LIFESTYLE
225
175
125
75


pyrex


Borax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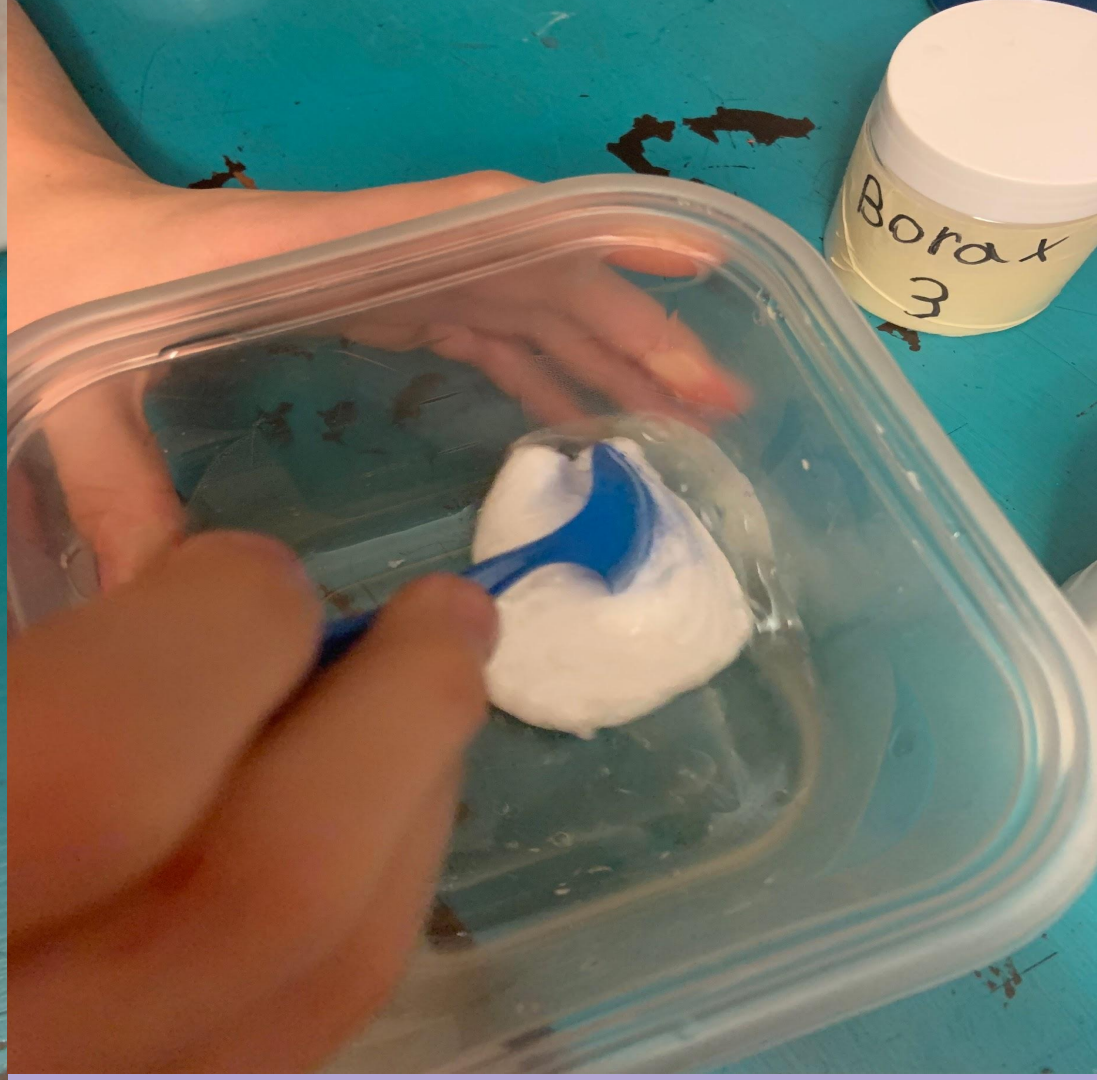
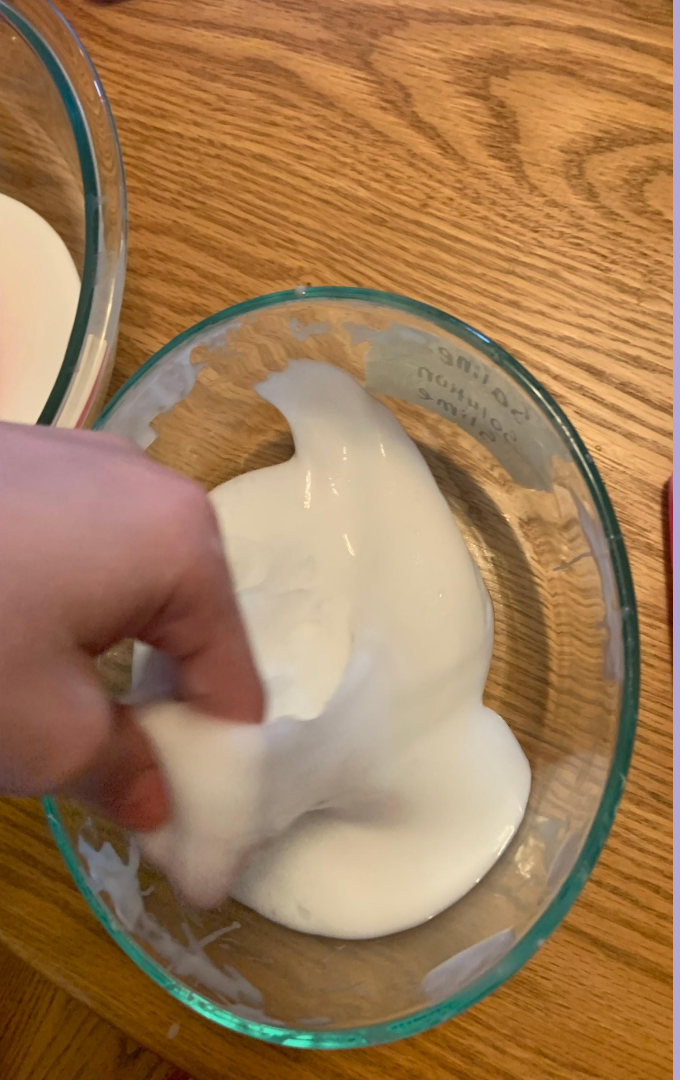
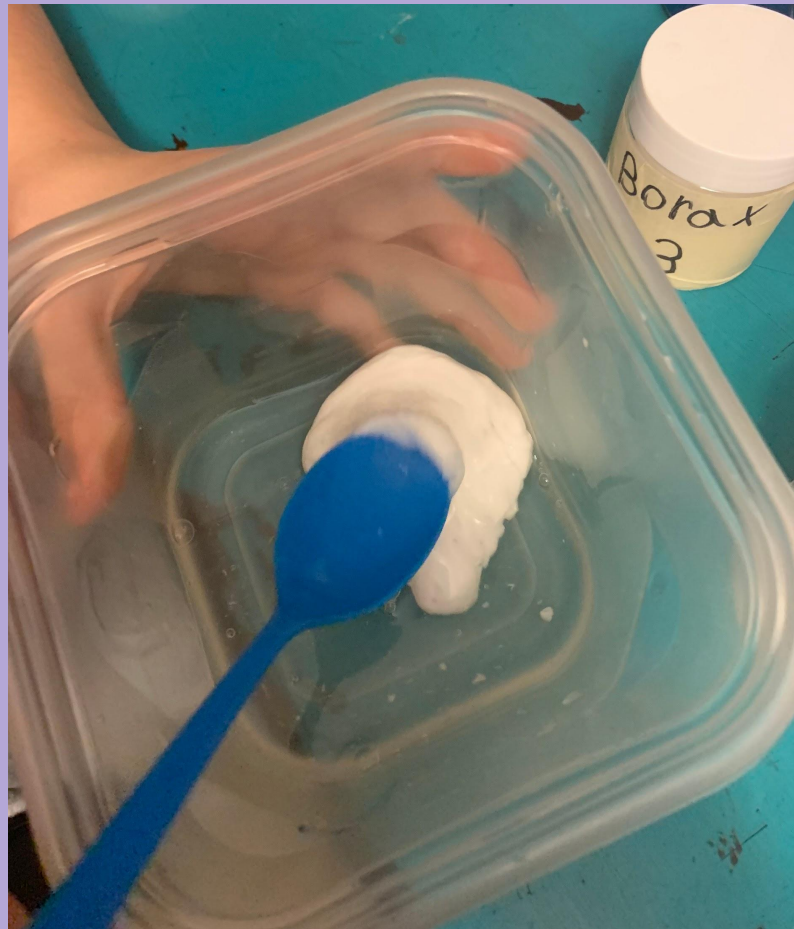
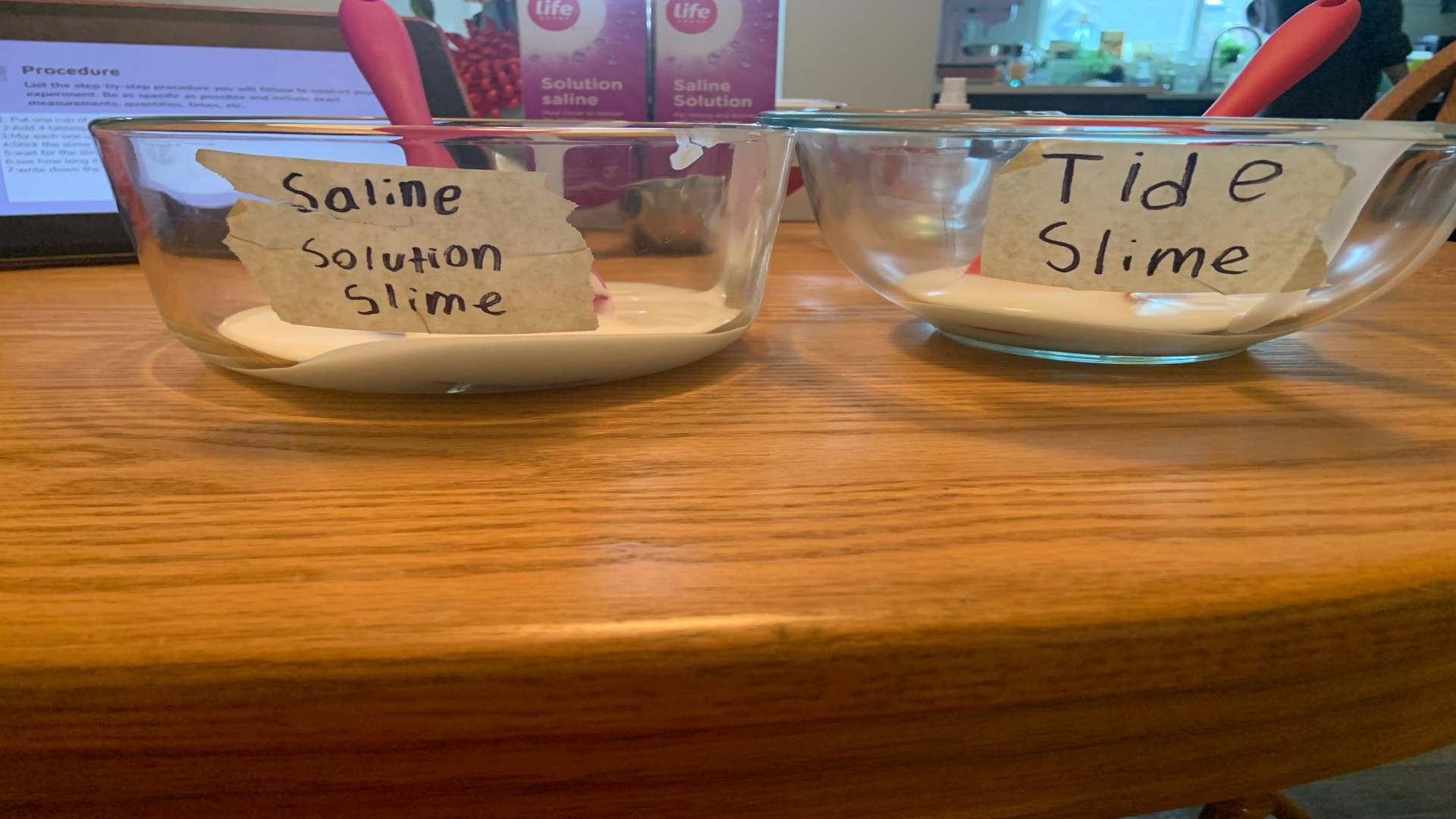
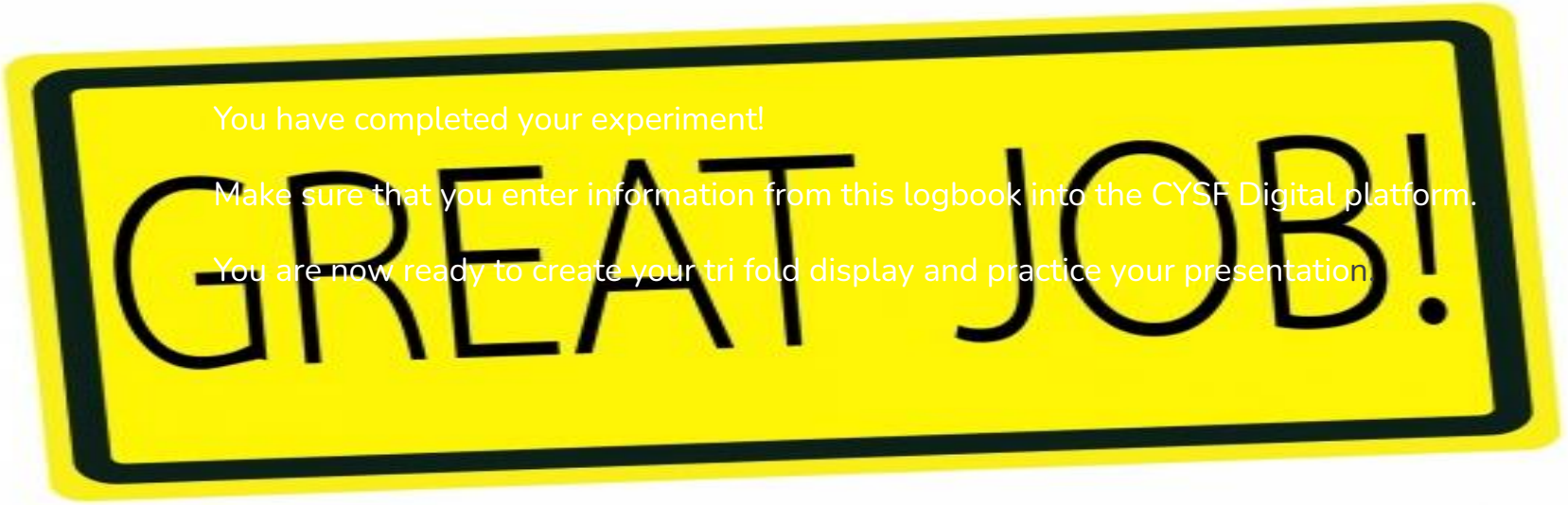

Borax
3




Borax


Procedure
Solution saline
Saline Solution
Saline Solution Slime
Tide Slime

CONGRATULATIONS!!!



You have completed your experiment!

Make sure that you enter information from this logbook into the CYSF Digital platform.

You are now ready to create your tri fold display and practice your presentation.