



Created By The Owl Teacher

TEACHER INFORMATION PAGE

I created this Slime Exploration because I wanted my students to do more than just create slime and determine its state of matter. Since students love slime so much, it was a great opportunity for me to weave in other areas of science too. However, I understand that you may not cover all of these areas of science, so I have created this science resource where you can pick and choose what activities you include.

In this resource, you can work through the activities through science centers and have students rotate through them, have students work in groups through each activity, or explore the activities together as a whole group. You can explore multiple activities in one day, or one activity per day. This resource is completely flexible for you and your class's needs.

To further consider your students' needs, I have included both half-page center direction cards and recording booklet, and a set of full page center direction cards and recording booklet. Both are offered in a colored version and a black and white version. I would suggest laminating the center direction cards for repeated future use.

I have also included additional activities at the end for a follow-up. These are completely optional.

It is my hope that you and your students enjoy this resource and find it helpful!





MATERIALS & SET UP

The slimes

When I set up the slime explorations in my classroom, I like to do it with 4 different types of "slime." I try to pick slimes that are very unique in properties. I personally don't care to make a lot of slime, so I purchase when I can. That is not required for you. You can purchase, make it yourself, request donations, or have a volunteer assist you.

When I set this up, I have 4 different types of "slime." I left the types of slime "open" in the resource as Slime A, Slime B, Slime C, and Slime D so that you are free to do different slimes from me. However, when I do it in my classroom, I always purchase GAK (Affiliate Link: You can find it <u>here on Amazon</u>), and make the rest. (Recipes are provided.) I do make my slime with iron fillings so that one of my slimes have magnetic properties for the magnetic test. However, you can skip this test if you don't want to do that.

I take the slimes and break them up into small amounts per center I'm running. I usually just put a small amount in a soufflé/portion cup with a lid on it – one of each slime at each center. Students shouldn't need a lot to "test." I also recommend placing wax paper or something similar to protect your surfaces.

If doing it my way...

- Slime A Liquid Starch Slime. See page 7. One recipe fills all stations.
- Slime B Saline Starch Slime. See page 7. One recipe fills all stations.
- Slime C GAK. One package of two can divide up into 4 centers. This can be reused year after year if stored properly.
- Slime D Magnetic Borax Slime. See page 7. One recipe fills all stations.

DO NOT MAKE SLIME UP UNTIL THE DAY OF!! If you make it too early it will separate!

*Ultimately, the last student recording sheet page asks students what their slime they made is most like (slime A, B, C, or D). That's why I have them make slime D but without the iron fillings so they have to determine based on its properties which "mystery" slime they made. Keep this in mind if you choose alternative slimes. Additionally, make sure your slimes all have different properties.

You can also find recipes online for making silly putty and other types of slime (other than the ones provided).



the sink test

What is the item provided?

What is the mass of the item provided?

| | What happens? Does it sink quickly, slowly, or not at all? Describe below. |
|------------|--|
| slime A | |
| slime B | |
| SLIME C | |
| SLIME D | Svi |
|) | |

THE BUBBLE TEST Record if you were able to make a bubble and if so, what size it was – small, medium or large. SLIME Α SLIME B SLIME 6 SLIME D

What properties of the slime causes the bubble to form?

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| SLIME B | |
| SLIME C | |
| SLIME D | |

What properties of the slime causes the bubbles to form?

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SLIME EXPLORATION Directions

<u>The Sink Test</u>

- 1.) Find the mass of the item in front of you and record it on your sheet.
- 2.) Place the item on slime A. What happens? Does it sink quickly, slowly, or not at all?
- 3.) Remove the item, clean it off, and place it on slime B. What happens? Does it sink quickly, slowly, or not at all?
- 4.) Repeat with the other slimes, one at a time, recording the results on your sheet.



Directions

The Bubble Test

- 1.) Pull slime A out of its container and shape it into a bouncy ball sized piece.
- 2.) Press the slime around the straw and hold it firmly so no air can escape. Then, slowly blow through the open end of the straw. You may need to try a few times.
- 3.) What happened? Were you able to make a bubble? Was it a small, medium, or large bubble?
- 4.) Return the slime back to its container.
- 5.) Repeat with the other slimes, one at a time.

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