



Project Exploration creates transformative learning opportunities for youth underrepresented in the sciences –particularly students of color and girls – by equipping them with the skills, practices, and mindset needed for a lifelong pursuit of learning. STEM@Home makes activities around science, technology, engineering, and math accessible and fun to do at home. This STEMbook activity, resources, and more are available at www.projectexploration.org/stemathome.

In this activity, you will:

learn about magnetism then conduct an experiment with slime.



Supplies Required:

Graphic organizer
Elmer's Glue
Synthetic Black Iron Oxide
Liquid Starch
Disposable Bowl

Disposable plate
Disposable gloves
Neodymium magnet
¼ measuring cup
Table Spoon

Video

Watch this video to learn about magnetism: <https://youtu.be/yXCeuSiTOug>

And this video to learn about the chemistry behind slime: https://youtu.be/yZBh_h894IA

Overview

Slime is created when we combine specific materials together and a chemical reaction happens. We will create not just slime, but magnetic slime using the steps of the scientific method: Problem, Hypothesis, Experiment, Analysis, and Conclusion. Then we can make the slime dance using magnets.



Instructions

1. **Problem** - What do we want to solve? What material out of all the provided materials will make the slime magnetic?
2. **Hypothesis** - Make a prediction about which material will be magnetic?
3. **Experiment** - Test it and make observations. Let's make some slime!
4. Place your plate on a flat surface. Into your disposable bowl pour $\frac{1}{4}$ of liquid starch.
5. Add two tablespoons of Iron Oxide into the bowl (**Be careful with the Iron Oxide because it can stain if spilled**).
6. Pour $\frac{1}{4}$ of a cup of elmer's glue into the bowl.
7. Put on gloves (**hands will turn black because of the iron oxide**). Mix with your hands over the plate.
8. **Analysis** - Test your slime with the magnet. How does the slime react?
9. **Conclusion** - Was your hypothesis correct or incorrect?

Additional Resources

1. How are magnets made? Find out here: <https://youtu.be/qed4ynPYVIA>

Share It Out

Share on social media: Take a picture of your slimy creations and share it! Talk about the power magnetism with a friend or family member. Be sure to use these tags.

#MagneticSlime
#ProjectExploration
#STEMatHome

For more activities like this one, go to www.projectexploration.org/stemhome. If you're interested in learning more about Project Exploration and our free events, programs, and activities, please find us on social media and be sure to follow!



Call or text us for help: 312-772-6634

www.projectexploration.org