



HOW TO MAKE MAGNETIC SLIME



Supplies Included with this kit:

- * White glue
- * Iron oxide powder
- * Liquid starch
- * Neodymium barr magnet

You will need:

- * Large mixing bowl
- * Measuring cup
- * 1 Tbsp measuring spoon



Instructions

Step 1: Pour 1/4 cup of white glue into your mixing bowl. You may have to use the spoon to scrape all the glue out of the measuring cup.



Step 2: Add 2 tablespoons of iron oxide powder. Stir well. You will be expecting the mixture to look solid black, like the photo of the slime above. However, it will look more like Oreo cookie crumbs! Don't worry – it will look solid black in a minute.



Step 3: Pour in 1/8 cup of liquid starch.

Step 4: Stir the glue and starch mixture really well to make sure that it's all mixed. As soon as you begin to stir, the starch will react with the glue and the slime will start to form. If you end up with a bit too much starch, rinse the slime for just a few seconds under cold water.

Step 5: Knead the slime with your hands. This is how the slime looks after a quick rinse and a little bit of kneading. It may help to wash your hands after kneading the slime and before playing with it. This helps to make the slime less sticky.



Troubleshooting:

- * If your slime is too sticky (glue-y), knead in a tiny bit more starch. If it's too stringy, knead in a little more glue.
- * If the slime is too sticky because of excess starch, run it under cold water for a few seconds.

Why Does It Work?

The iron oxide powder in the slime is attracted to the magnet. Iron is one of three elements that is magnetic at room temperature. The other two elements that are magnetic at room temperature are cobalt and nickel. The mixture of school glue with iron oxide and starch, creates the slimy substance that holds the iron. What prevents the iron filings from flying out of the slime and onto the magnet? The slime is able to hold on to the iron filings by *adhesion*. Adhesion is the force that holds molecules of different substances together. The slime is also bonded together by *cohesion*, the force that holds molecules of the same substance together. This combination of magnetism, adhesion, and cohesion results in the stretchy, moving slime when a neodymium magnet is held near the mixture.