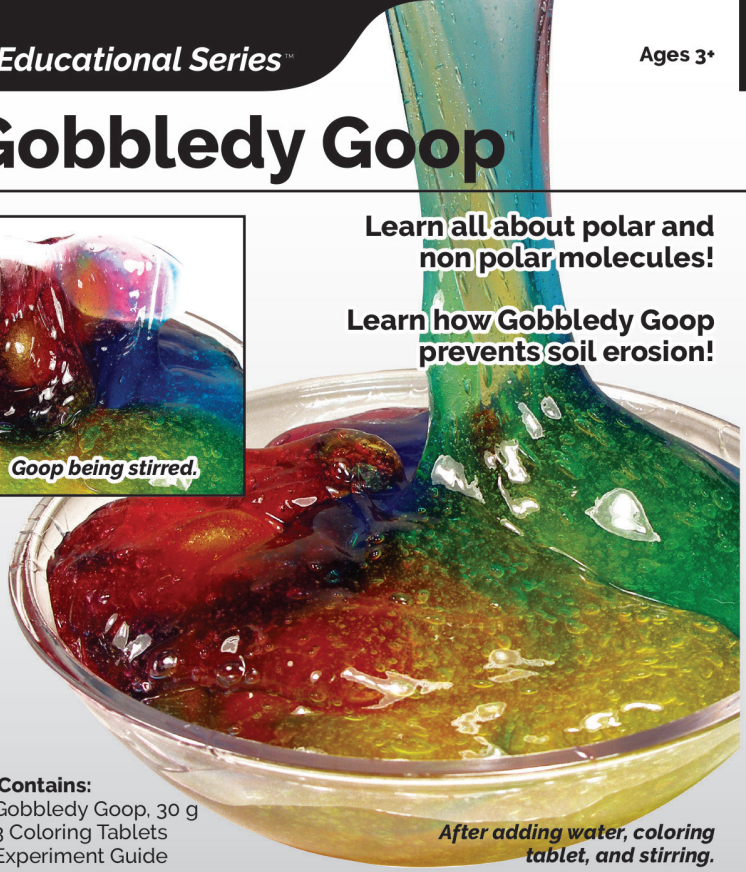
Educational Series™

Ages 3+

Gobbledy Goop™

Learn all about polar and non polar molecules!

Learn how Gobbledy Goop prevents soil erosion!



After adding water, coloring tablet, and stirring.

Kit Contains:
- Gobbledy Goop, 30 g
- 3 Coloring Tablets
- Experiment Guide

DuneCraft

www.dunecraft.com

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Warning, Not suitable for children under 36 months. Small parts. Choking hazard

Printed, Made and Assembled in the USA!

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This is not a toy. For educational purposes only. Adult supervision required.

Educational Series™

Gobbledy Goop™

Make your own slime! This entertaining kit includes powder to make red, green, blue, yellow, orange, purple, and clear colored slime in any thickness. Just add water to create the most ooey, gooey slime imaginable. Gobbledy Goop is safe and non toxic. It's the only slime that doesn't require Borax or other additional chemicals.

Mixing Your Gobbledy Goop

The key to creating the perfect consistency slime is to stir the powder evenly into the water — if it clumps together, it will not form smooth slime. For best results follow these instructions carefully:

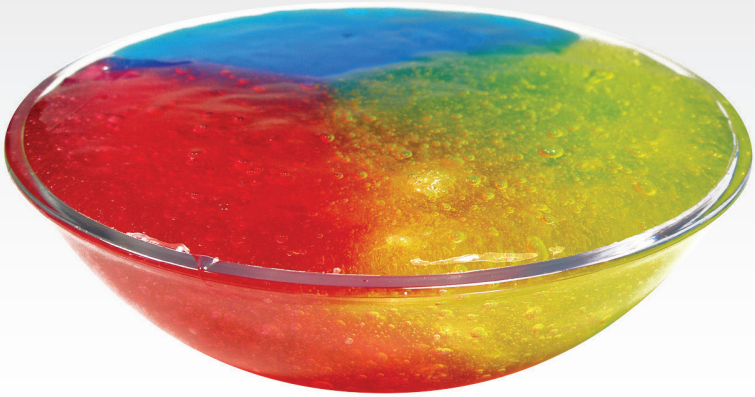
- Pour 118 mL (½ cup) of water into a cup.
- Place desired color tablet(s) in the water and let it dissolve for at least 1 minute.
- Slowly sprinkle in 5 g (1 teaspoon) of powder while stirring briskly with a spoon.
- Add another 237 mL (1 cup) of water while continuing to stir.
- Sprinkle another 5 g (1 teaspoon) of powder into the cup while stirring quickly.
- More water makes thinner, smoother slime; less water makes thicker, clumpier slime.
- The slime will continue to thicken for up to 10 minutes.

Cleaning Up Your Gobbledy Goop

Gobbledy Goop slime forms a layer on your hands that is easily removed with soap. First wipe hands with a paper towel, then wash thoroughly with soap and water.

Fun Facts

- Gobbledy Goop is used to purify water during the manufacturing of cement.
- Gobbledy Goop is used in hydroseeding to make seeds stick to the soil.
- You can make lots of different colors of Gobbledy Goop!
- You can make thick or thin slime by varying the amount of water that is added.



Experiments with Your Gobbledy Goop

1 Measure 237 mL (1 cup) water into a cup. Slowly stir in 10 g (2 teaspoons) of Gobbledy Goop with a plastic teaspoon. ***What happens?*** (Add more powder for thicker slime; add more water for thinner slime.)

The powder begins to turn into slime. Liquids such as water are called monomers, meaning they are made of individual molecules, and this makes them flow easily. Gobbledy Goop is a liquid polymer, meaning it is made of molecules and doesn't flow as easily. This causes Gobbledy Goop's slimy and stringy texture. When Gobbledy Goop is mixed with water, negatively charged sodium ions are released.

2 Put regular soil in two cups. Stir to make the water muddy. Sprinkle a small amount of Gobbledy Goop powder in one of the cups. ***What happens?***

Gobbledy Goop attaches to the soil that is suspended in water. This makes the soil heavier than water so it doesn't wash away. Gobbledy Goop is helpful in preventing erosion because of this. Erosion is the wearing down or washing away of soil, often caused by rain or rivers carrying soil away with water.

3 Pour water over a small pile of Gobbledy Goop at the bottom of a cup. ***What happens?*** Mix Gobbledy Goop into a cup of water evenly. ***Which method makes smoother slime?***

The slime is the first cup will be stringy and clumpy. The slime in the second cup will be smooth. If clumpy slime is desired then the first method should be used. The key to creating the perfect consistency of slime is to stir the powder evenly into the water - if it clumps together it will not form smooth slime.

4 Try mixing Gobbledy Goop with hot water. Now try mixing it with ice water. ***Which water makes slime faster?***

The hot water makes the slime the fastest. Gobbledy Goop quickly spreads out and makes a thick slime almost immediately. The ice water makes slime much slower. The slime clumps in a ball at the bottom of the cup and doesn't dissipate. While it does end up making slime it takes much longer. The slime isn't as thick and is clumped together.

5 Design new colors of slime by making different colors of water and then adding the Gobbedly Goop powder.

Company Information

DuneCraft

Visit our web site ***www.dunecraft.com*** to:
- Locate retailers near you!
- Learn more about your product!
- Learn more about other products!

Email ***sales@dunecraft.com*** or call ***1-800-306-4168*** with questions

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How it Works!

Liquids such as water are called monomers, meaning they are made of individual molecules, and this makes them flow easily. Gobbledy Goop is a polymer, meaning it is made of many repeating units. Water molecules are polar molecules and are attracted to the particular structure of this polymer. Hundreds of water molecules are attracted to the polymer, making structures that are more difficult to flow by each other. This causes Gobbledy Goop's slimy and stringy texture. When Gobbledy Goop is mixed with water, negatively charged sodium ions are released.

Special Use — Erosion Prevention

Erosion is the wearing down or washing away of soil, often caused by rain or rivers carrying soil away with water. Erosion is becoming a larger problem as deforestation continues. Tree roots help hold the soil together, and in the absence of roots the soil is looser and more susceptible to erosion. In the most extreme circumstances, loose soil gets washed away by heavy rainfall and causes landslides. Gobbledy Goop helps prevent erosion by attaching to soil that is suspended in water. This makes the soil heavier than water so it doesn't wash away.

Notes