

The Creation OF SLIME



Materials:

A cup, water, borax, and glue

Instructions:

Get a cup and add an equal amount of glue and water, make sure to mix well. Then proceed by adding about a tablespoon of borax .

Slime it up!

You may experiment with your slime by adding more borax solution, glue, or water. What happens?

Slime & Polymers

BEHIND THE SCENES

• POLYMERS

When you mix glue and water you create a polymer. The borax (sodium tetraborate) makes the polymer chains bind stronger together to make the glue solution thicker. Its like a rubber band, when its relaxed its easy to stretch because the chains between the molecules are not strong. However, when you try to stretch a stretched rubber band it's a bit harder because of the stronger chains.

• CHEMICAL BONDING

Chemicals combine to make cross linked polymers. Think about lots of long strings together. They ultimately end up getting tangled together because of their length and shape. So "cross linked" is another way of saying "tangled."

• PHASE CHANGES

Polymers have qualities of both solid and liquid. When an ice cube melts into water, it has undergone a phase change.

• CHEMICAL CHANGES

The molecule bonds between the different substances create chemical changes because a new substances is created. When somebody consumes

food and then digests it, the food has undergone chemical changes because it's no longer the food that was originally eaten.

- **ENGINEERING SLIME**

A unique slime can be engineered by altering the ingredients. Food results differently depending on the ingredients used because each ingredients plays a role.

Backpack of knowledge

Slime is just another way to demonstrate how some polymers are affected by different chemicals. Polymers are found in almost everything in our present world, such as clothes, nylon, and most plastics.