

STEM SPARK Exploring Chemical Changes: Investigating Bouncy Balls

In this experiment, your child will explore a simple chemical change while making bouncy balls!

First, make your two mixtures of water + borax, and glue + cornstarch. Using food coloring, add drops of dye to the glue. Encourage your child to predict what color the solution will become. Have your child explore the glue solution. What does it feel like and look like? Help them record their observations.

Now, have your child predict and record what will happen when you combine glue solution with the Borax mixture. Combine the two bowls and stir. Record any changes that occur. Vary the water temperature and the shape of the object your child makes to explore the effects of temperature and shape on the bounciness of their creation!

Word Bank: Slippery Warm Blue Red Yellow
 Purple Green Orange Swirly Color
 Harder Cold Sticky Ball Slimy

	Prediction	Observations
Glue +Food Coloring		
Mixing Solutions		
Cold Water		
Room-Temperature Water		
Non-spherical shape		