

## EXPERIMENT

Using the bouncy ball recipes predict which ones will bounce the best, roll the best, stay in a ball the best... (Etc.)

Then experiment. Make the different bouncy balls and test them to see which recipe works the best.

You could even try doubling the recipe to make a giant bouncy ball or half the recipe and make a tiny bouncy ball and see how that affects the results.

At the end of the experimenting, go back over the predictions and see if they were right.

## DIY BOUNCY BALLS

### ADDITIONAL INFORMATION

**Borax can be found at most stores in the detergent aisle.**

**Another fun experiment would be to see if the homemade bouncy balls could stand up (in bounciness) to a store bought bouncy ball.**

**You could also try to see if the homemade bouncy ball recipes work as well as a bouncy ball kit.**

**Here are some resources for bouncy ball kits:**

**[Amazon: Scientific Explorer Ultimate Science Blast](#)**

**[Amazon: Scientific Explorer Ball Blast Bouncers](#)**

## BOUNCY BALL #1



### SUPPLIES NEEDED:

½ Cup Warm Water

1 Tablespoon Borax

1 Tablespoon Cornstarch

2 Tablespoons of White Liquid Glue

Food Coloring

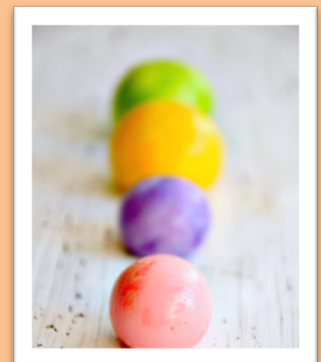
Optional: Disposable Rubber Gloves

## DIY BOUNCY BALLS

### INSTRUCTIONS

1. In a cup, mix warm water and borax.
2. In another cup mix corn starch, glue, and food coloring.
3. Pour the glue mixture into the water and borax mixture.
4. The glue mixture will harden after 10 seconds. Use a fork to take it out of the water.
5. If the glue mixture is still sticky, squish it in your hands and dip it back in the water.
6. Roll the mixture in your hands to form a ball.
7. The more you handle the mixture the firmer it will be.
8. Enjoy!

Note: Keep in mind, the bouncy ball will flatten if left sitting for a while. Store them in a plastic container or plastic bag. If they flatten, roll them in your hands again and they should reshape to a ball.



SOURCE

<http://www.the36thavenue.com/how-to-make-a-bouncy-ball/>

## BOUNCY BALL #2



### SUPPLIES NEEDED:

Two cups

Measuring Spoons

A Coffee Stir Stick (Or something to stir with)

2 Tablespoons Warm Water

1/2 Teaspoon Borax

1 Tablespoon Cornstarch

1 Tablespoons of White Liquid Glue

Food Coloring

Optional: Plastic bag for storage

## DIY BOUNCY BALLS

### INSTRUCTIONS

1. In a cup, mix warm water and borax until the borax is dissolved.
2. In another cup mix corn starch, glue, and food coloring.
3. Add ½ teaspoon from the first cup mixture into the second cup.
4. Let the mixtures interact for about 15 seconds before stirring.
5. After about 15 seconds, stir the mixture until it is hard to keep stirring.
6. Scoop the mixture out of the cup and roll into a ball.
7. Now you're all done!

Note: Best kept in a plastic bag to keep it from drying out.



SOURCE

<http://kidsactivitiesblog.com/17758/diy-for-kids>

## BOUNCY BALL #3



### SUPPLIES NEEDED:

Two cups

¼ Cup Elmer's Glue

Food Coloring

1 ½ Tablespoon Borax

¼ Cup Warm Water



## DIY BOUNCY BALLS

### INSTRUCTIONS

1. Pour glue into a bowl.
2. Add a few drops of food coloring.
3. Stir together until blended.
4. Add 1 ½ Tablespoon of Borax and stir, it should start to feel like a plastic texture after stirring.
5. Add the water and stir the mixture around in the water. (The water will not mix with the mixture but it will help to stiffen it)
6. When the mixture is pretty stiff take it out of the bowl and run it under warm water to make it just a little more stiff.
7. When it's stiff enough roll it into a ball and dry it off using a towel.

Note: Store in an air-tight container.

SOURCE

<http://totallythebomb.com/super-bouncy-ball>