

Curiosity Labs™ by Merck:
Fizzy Play Doh

in this experiment, you will learn...

- What a **chemical change** is
- How scientists determine if a chemical change has occurred

Share your results and tag us! #SPARKCuriosity

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SUPPLIES

- Corn starch
- Hair conditioner
- Eye dropper or straw
- Gloves (optional)
- Baking soda
- Lemon juice
- Wax paper

Instructions

STEP 1

Place a large piece of wax paper on the table.

STEP 2

Add ½ cup (65 g) corn starch, ¼ cup (32 g) baking soda and ¼ cup (32 g) hair conditioner on top of the wax paper.

STEP 3

Mix all of these ingredients together on top of the wax paper to create play doh.

STEP 4

After mixing to desired consistency, flatten the play doh and add drops of lemon juice on top to make it fizz. (note: the play doh will only fizz so many times due to the corn starch. There is no need to keep adding lemon juice once the fizzing has stopped.)

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FUN FACTS

How can you tell that a chemical change occurred?

Here are a few clues that usually signal a chemical change: bubbles, color change, and exchange of energy 'heat or light'.



WHAT HAPPENED?

A chemical change occurred! The baking soda is reacting with the lemon juice to release carbon dioxide in the form of bubbles.