

Fizzing Chalk Paint

TAILS AND TALES™

15-minute STEAM
2021 Summer Reading

Supplies:

2 cups Baking Soda
1 cup warm water
2 small plastic cups
Measuring cup
Spray bottle of Vinegar

2/3 cup corn starch
Food coloring
Paintbrushes
Mixing bowl



1. In a mixing bowl, combine water and corn starch. Stir until smooth. It will be runny. The less water you add, the thicker it will be.
2. Add in Baking Soda and stir to combine.
3. Divide the mixture evenly into the small plastic cups. You'll want to keep stirring the ingredients so they don't settle. Add food coloring to each cup to make different paint colors.
4. Use paintbrushes to paint pictures on a chalkboard or on the driveway outside. The mixture is thinner than regular paint, but you can use it the same way.
5. Once the painting is over, it's time for the science! Give the kids the spray bottles filled with vinegar and watch the fizzing action!
6. The chalk paint washes off easily with water. Wait for the rain or wash it off with the hose.

NOTE--Be aware that the paint mixture will settle quickly and be thick on the bottom. Some of the food coloring may also separate. Just stir again before using.



The Science

This fizzing sidewalk paint is all about a cool chemical reaction between the baking soda and the vinegar. The baking soda is a base and the vinegar is an acid. When you combine the two, a new substance is formed, a gas called carbon dioxide. You can see, hear and even feel the chemical reaction happening.

Taken in part from littlebinsforlittlehands.com/fizzing-sidewalk-paint/



Attleboro Public Library

74 North Main St
Attleboro, Massachusetts 02703 | (508) 222-0157
attleborolibrary.org