

JR-SCIENTISTS

ERUPTING LEMON

Great science is as simple as walking into the kitchen with this erupting lemon volcano chemistry experiment!

INSTRUCTIONS:

STEP 1: Place half of a lemon into a bowl or plate that will catch the mess when it erupts.

STEP 2: Take your craft stick and poke holes in the various sections of the lemon. This will help the reaction along a bit in the beginning.

STEP 3: Place drops of food coloring around the different sections on the top of the lemon.

STEP 4: Pour some Dawn dish soap all over the top of the lemon.

STEP 5: Sprinkle a generous amount of baking soda onto the top of the lemon. Then you can go ahead and use a craft stick to press some of the baking soda down into the different sections of the lemon to get the eruption going.

THE SCIENCE

How is our lemon volcano erupting? The chemical reaction of course. The citric acid from the lemon juice is reacting to the base of the baking soda creating a gas called carbon dioxide. Bubbling, fizzing carbon dioxide which creates a rainbow of colors. This fizz also helps the dish soap create a more exaggerated eruption.

SUPPLIES

Lemons
Baking Soda
Food Coloring
Dawn Dish Soap
Plate, Tray, or
Bowl
Craft Sticks

