

VOLCANO

AN EXPLOSIVE EXPERIMENT!

Mix, pour, and watch science come to life!



DID YOU KNOW?

When you mix vinegar with baking soda, it creates a gas called carbon dioxide that forms bubbles and makes your volcano erupt!

MATERIALS



1 plastic cup
or small bowl



2 tablespoons
baking soda



Food coloring
(any colors!)



1 tablespoon
liquid dish soap



1 cup
vinegar

BUILD YOUR VOLCANO

Use play dough, clay, or air dry clay to build a volcano around the cup or bowl. Make sure the opening is wide enough for the "lava" to bubble out!



STEP-BY-STEP

1



Build your volcano
around the cup
or bowl.

2



Inside the cup,
add 2 tablespoons
of baking soda.

3



Add a few drops
of food coloring
to your favorite
color.

4



Add 1 tablespoon
of liquid dish soap
into the cup.

5



Carefully pour the
vinegar into the cup
and step back!

6



Watch your volcano
erupt and the lava
bubble over the top!



WHY DOES IT HAPPEN?

Vinegar (an acid) reacts with baking soda (a base). This chemical reaction produces:



WATER

+



SODIUM
ACETATE (SALT)

+



CARBON
DIOXIDE (GAS)

The carbon dioxide (CO_2) is the gas that forms bubbles and pushes the lava out of the volcano, creating the eruption!



FUN IDEAS

- Use different colors for different lava eruptions!
- Add glitter or small sequins for an extra WOW effect!
- Make mini volcanoes and compete to see whose erupts the highest!



EXTRA TIPS

- For a bigger eruption, add more baking soda and vinegar.
- For more bubbles, add a little more dish soap.
- Do this experiment on a tray or a place that is easy to clean!



SAFETY FIRST

- Ask an adult for help.
- Do not drink the vinegar.
- Wash your hands after the experiment.



EXPLORE & LEARN

Science is all around us! Ask questions, make predictions, experiment, and discover the world of science!



★ EXPLORE • DISCOVER • LEARN • HAVE FUN! ★