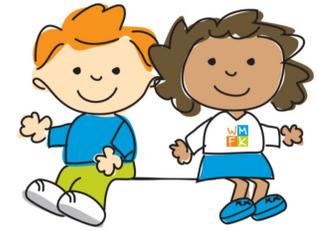


Make an erupting volcano!

There are many different types of volcano models – using different materials and different size cups or bottles. As the chemical reaction from the baking soda and vinegar takes place, a bottle with a narrower neck may have a greater eruption.

In each of the volcanoes, you'll use a water bottle or plastic cup and build the volcano around it. You can choose to use one of these or just make your own!



What Matters For Kids
Engage, Entertain, Educate!

To build your volcano:

- Wet sand
 - Sand
 - Water
 - Wet the sand slightly so it will hold together, then pack it around your water bottle or plastic cup to create a volcano shape!
- Clay
 - Clay
 - Mold clay around your water bottle or plastic cup to create a volcano shape!
- Salt dough
 - Flour
 - Salt
 - Water
 - Combine 2 cups of flour and 1 cup of salt.
 - Add water slowly while stirring and mixing to form a dough with a Play-Doh like consistency (1/2 to 1 cup).
 - Knead for about 5 minutes. If the dough is, add a little more of each water or flour, if it is too thick or too thin.
 - Mold clay around your water bottle or plastic cup to create a volcano shape!!
 - Paint as desired!
- Soil or dirt
 - Soil or dirt
 - Water
 - Wet the soil or dirt slightly so it will hold together, then pack it around your water bottle or plastic cup to create a volcano shape!
- Paper Mache
 - Newspapers
 - Water
 - Flour
 - Roll up newspapers to wrap around your bottle or cup to create a dome shape like a volcano.
 - Mix 1 cup of flour and 1 cup of water together to get a paste like mixture (add a little more of each if it is too thick or too thin) If you need to, mix with a hand mixer if you can't get all the lumps out.
 - Add a few tablespoons of salt to the mixture to deter mold.
 - Cut newspaper into 1-1.5 inch strips and dip into the paste mixture. Layer them on your volcano.
 - After 2-3 layers, let it dry, you can add more layers if you'd like, or add construction paper in the colors that you want your volcano to be then you won't even have to paint it!

- Poster board
 - Poster board
 - Tape
 - Markers or paint
 - Scissors
 - Place your bottle or cup upside down in the center of the posterboard
 - Trace around the bottle or cup in the center of the posterboard
 - Cut with the scissors from any side of the posterboard straight to the circle you drew and cut around that circle in the center.
 - You will now have a hole in the center with a cut from that circle out to the edge of the posterboard.
 - Wrap the posterboard around the mouth of your bottle or cup overlapping the edge of the

posterboard to form a dome shape and tape it there.

- Cut your dome around the bottom so that the cup or bottle can still sit on the surface when your volcano is placed on a table or the ground.
 - If you secure the bottle or cup well enough, or give it something else to sit on to raise it (maybe a plastic container or plastic blocks, something that won't get destroyed if it gets wet), you don't have to cut much of the dome bottom so the volcano can still be tall.
- Decorate your volcano with markers or paint!

To make your volcano erupt!

Materials:

- 4-6 tbsp baking soda
- 1 c vinegar
- 1 tsp dish soap
- 1 c water

- Food coloring (optional)
- Put your volcano in a deep bowl or tray, or better yet, do it outside for easy cleanup!

Process:

- Add baking soda and water to your volcano's cup or water bottle (you might need a funnel)
- Add food coloring, if desired to baking soda mixture
- In a measuring cup with a spout, add a different color food coloring to the vinegar! It is best to use two different primary colors to see a secondary color!
- Pour the vinegar into the cup or water bottle and stand back!