

Science at Home



Materials Needed:

- ½ cup vinegar
- 1 cup water (approx)
- 4 TBSP baking soda
- spoon
- plastic cup
- dish soap
- food coloring (optional)
- paper towels or a rag (just in case)

Baking Soda and Vinegar Volcano

- 1. Go outside and dig a shallow hole and place the plastic cup in the hole. Use the extra dirt to build up the volcano around the edge of the cup. You can also do this experiment inside but put a baking tray under your plastic cup to catch the mess.
- 2. Fill the cup $\frac{2}{3}$ full with water.
- 3. Add squirt of dish soap and a bit of food coloring.
- 4. Add baking soda
- 5. Stir
- 6. Add the vinegar

Science Behind the Science You See

Baking soda (sodium bicarbonate) is a base while the vinegar (acetic acid) is an acid. When they react they form carbonic acid which isn't very stable. The carbonic acid breaks apart into water and carbon dioxide which creates all the fizzing you see.

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