

**Directions:** Observe a chemical change. Become a chemist and see what happens when you mix baking soda and vinegar.

Watch your teacher perform the experiment.

Look at the level of vinegar and the level of baking soda. Talk about how each looks and smells. You can taste each, as they are edible. Ask your teacher first. Record what you observe.

**vinegar**

**baking soda**

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Watch as your teacher combines the vinegar and baking soda into a larger bowl. What did you see happen? Record your observations.

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Draw what you observed when the two materials were combined.

A chemical reaction occurred! What do you think happened? What caused what you see?

Baking soda (sodium bicarbonate) is a **base**, while vinegar (acetic acid) is an **acid**. When they react together they form **carbonic acid**. Carbonic acid is very unstable. It breaks apart right away into **water** and **carbon dioxide**. This creates all the fizzing as it escapes the new solution.