



## Balloon Baking Soda Experiment

### Supplies Needed:

- Baking Soda
- Vinegar
- Empty Water Bottles
- Balloons
- Measuring Spoons
- Funnel {optional but helpful}

### Doing the Experiment

- Blow up the balloon a bit to stretch it out some.
- Use the funnel and teaspoon to add baking soda to the balloon. We started with 2 teaspoons and added a teaspoon for each balloon.
- Fill the container with Vinegar halfway
- Attach balloons to containers making sure you have a good seal!
- Lift up the balloon to dump the baking soda into the container of vinegar
- Watch the balloon fill up
- To get the most gas out of it, we swirled around the container to get it all going!

### How this Experiment Works

The science, behind this balloon baking soda experiment, is the chemical reaction between the base {baking soda} and the acid {vinegar}. When the two ingredients mix together the balloon baking soda experiment gets it's lift!

That lift is the gas produced from the two ingredients is carbon dioxide or CO<sub>2</sub>. As the gas tries to leave the plastic container, it goes up into the balloon because of the tight seal you have created. Because the gas has nowhere to go and is pushing against the balloon it inflates it! Similarly, we exhale carbon dioxide when we blow up balloons.