

Title: Baking Soda & Vinegar Balloon Experiment

Age Group: School Age

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Type of Activity: Science

Materials:

- 1/3 cup baking soda
- 1 cup vinegar
- Funnel
- Measuring cup
- Balloon(s)
- Empty water bottle

How to Do it:

- Using the funnel pour the vinegar into the empty water bottle.
- Rinse the funnel and dry it. Place the narrow end of the funnel into the balloon and pour the baking soda in carefully, shaking the powder into the bottom of the balloon.
- Once all the baking soda is inside of the balloon, take the funnel out, open the top of the balloon and place it over the mouth of the bottle, being careful to keep the powder in the bottom of the balloon..
- Hold on to the balloon (just in case it flies off) and tip the baking soda into the vinegar. In seconds, watch the balloon expand.

Root Skill / Extension:

This experiment introduces children to Properties of Matter, and Cause and Effect, two key science principles. When baking soda and vinegar are combined, a gas called Carbon Dioxide is created which then inflates the balloon.

Extend the learning: Open-ended questions: “What would happen if we put vinegar in the balloon and baking soda in the bottle, would this change the reaction?” “What would happen if we used a needle to poke a hole through the bottle would the balloon inflate?” “What else can we find out about Carbon Dioxide?”

Photos from: <https://onelittleproject.com/baking-soda-and-vinegar-balloons/>