

Baking Soda and Vinegar Balloon

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Summary

In this experiment, baking soda and vinegar are mixed in a bottle, with a balloon attached to the lip. When the two interact, baking soda, or sodium bicarbonate, and vinegar, acetic acid, an acid base reaction occurs. The two react to form carbon dioxide. Since carbon dioxide is a gas, and gas molecules want to spread out, the balloon inflates. This experiment is super fun, easy, and looks like magic!

Materials

1. Baking soda (sodium bicarbonate)
2. Vinegar (acetic acid)
3. A balloon
4. A plastic water bottle (or another lipped container)
5. A funnel (optional but helpful)

Procedure

Link to Video:

<https://drive.google.com/file/d/14FMieggFTE7CiwRAQ5V-NIHEUAbIshlx/view?usp=sharing>

Written Out Instructions:

1. Fill a water bottle with 1/3 cup of vinegar
2. Attach funnel to balloon
3. Add a few (2-3) tablespoons of baking soda to the balloon
4. Stretch the balloon to cover the lid of the bottle
5. Shake it up!



Materials & Resources

Here's a super helpful guide that goes a little more in depth:

<https://www.education.com/science-fair/article/baking-soda-and-vinegar-balloon/>

Or watch this fun video!

https://www.youtube.com/watch?v=V_Hn6pT4M-Y

