



Inflate a Balloon



**Blow up a balloon without using your breath.
Use a chemical reaction instead!**

Materials:

- ❖ 1 cup vinegar
- ❖ A plastic water bottle (or similar bottle)
- ❖ 1/3 cup of baking soda
- ❖ A balloon
- ❖ Optional funnel (makes it easier and less messy)



Procedure:

1. Pour the 1 cup of vinegar into the plastic bottle.
2. Stretch open the balloon mouth and carefully pour the baking soda into the balloon. One person may need to hold the balloon open while the other pours.
3. Place the balloon mouth over the bottle while holding the balloon to the side so that the baking soda does not fall into the bottle.
4. Make sure that the balloon mouth is tightly around the neck of the bottle.
5. Hold up and shake the balloon so that the baking soda falls into the bottle.

Observe what happens. Cool, huh?

The vinegar mixed with the baking soda to create a chemical reaction that produces carbon dioxide gas. Carbon dioxide gas is what we breathe out every day. This gas then blows up the balloon.

