

# Balloon Blow Up

By: Eric Lee



# Supplies needed

- Small Bottle
- Balloon
- Baking Soda
- Vinegar
- Funnels
- Teaspoon

## You will need...



Small plastic bottle



Baking soda



Funnel or piece of paper



Vinegar

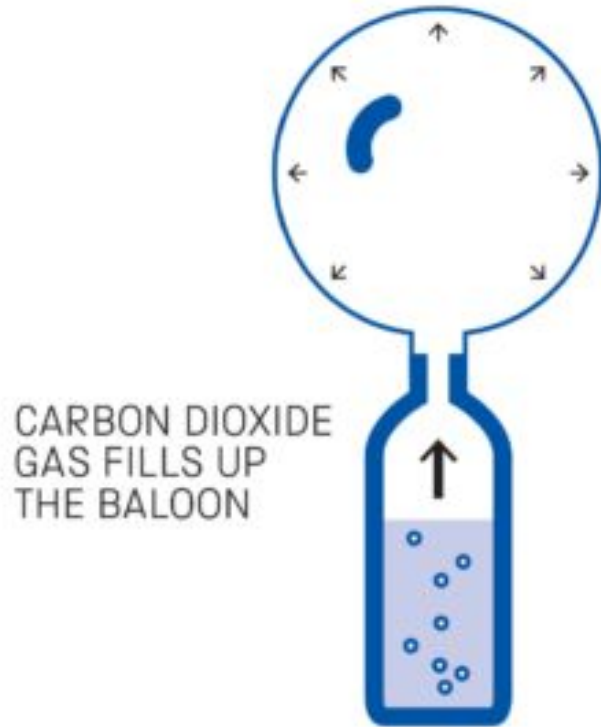


Balloon



Teaspoon

# Can you blow up a balloon without using your mouth?



When you add the baking soda to the vinegar a chemical reaction occurs. That reaction releases a gas called **carbon dioxide (CO<sub>2</sub>)**.

Because the balloon forms a seal around the bottle, the gas produced cannot escape, so it fills up the balloon.

# Procedure

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1. Fill the bottle with third of a cup of vinegar.



2. Insert a funnel into the mouth of the balloon. Place two teaspoons of baking soda into the funnel so it falls into the balloon.



# Procedure

3. Carefully place the balloon over the neck of the bottle and allow it to droop over to the side, making sure none of the baking soda falls into the bottle.

4. Lift the end of the balloon and pour the baking soda into the bottle. Shake well and place the bottle on a table. Watch the balloon inflate all by itself!



# Think and Talk about ...

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- What can you see happening in the bottle?
- What is making the balloon inflate?
- Is it blowing up faster or slower than when you use your mouth??



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**Thank You!**