

Self-Inflating Balloon

Lets talk about solids, liquids, and gases! Watch a balloon inflate on its own all thanks to science!

Connected Standard:

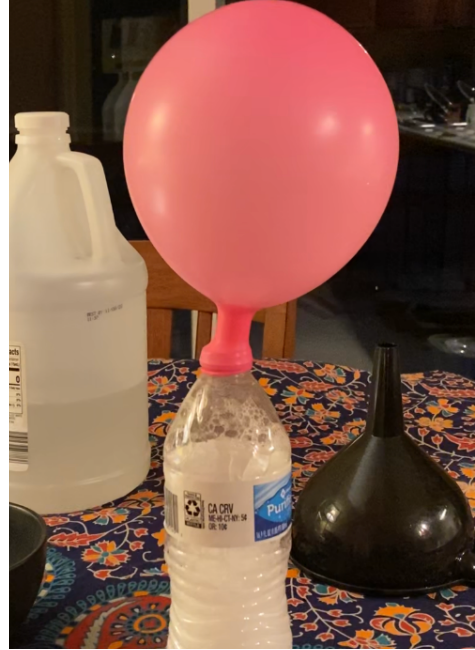
3.2 K.A.3 Describe the way matter can change.

What you will need:

- 1 Balloon
- Vinegar
- Baking Soda
- Empty Plastic Water Bottle
- Funnel
- Spoon

Instructions:

1. Add your liquid (about 1/4 cup of vinegar) to the empty water bottle.
2. Using the funnel, put your solid (about 1 teaspoon of baking soda) into the balloon.
3. Carefully attach the lip of the balloon to the top of the water bottle. Make sure you leave the bulk of the balloon holding the baking soda hanging down so it doesn't fall into the water bottle!
4. When ready, pick up the balloon so that the baking soda falls into the bottle and watch the balloon inflate!



The Science Behind It:

Vinegar (our liquid) is an acid and baking soda (our solid) is a base, and when they combine the product they create is CO₂ or carbon dioxide gas. The carbon dioxide gas inflates the balloon because it has nowhere else to go!

Books to Pair with this Experiment:

- *The Wump World* by Bill Peet
- *The Lorax* by Dr. Seuss

Experiment Credit: <https://www.kidsacademy.mobi/storytime/states-matter-for-kids/>