Baggie Blast

Collect

- Medium zip-top baggie, test thoroughly with water for leaks beforehand
- Paper towel
- 45mL (3 tablespoons) baking soda
- 300mL (1.5 cups) vinegar
- 60mL (0.25 cup) warm water
- Adult supervision

Get poppin

1. Place the baking soda in the middle of the paper towel and fold it up into a little packet.
2. Pour the vinegar and water into the plastic baggie.
3. Place the baking soda packet just inside the baggie, and hold it out of the liquid while you seal the baggie. Make sure the baggie is completely closed.

Hypothesis time! What do you think will happen when these three ingredients mix?

4. Let the packet drop into the liquid, place the bag down, and step back.
5. Make your observations. Did this reaction create a solid, liquid, or gas?

What's happening?

A chemical reaction creates products that are chemically different from the reactants. Chemical indicators are clues that a chemical reaction has taken place. One example of a chemical indicator is the formation of a gas. In this chemical reaction, the baking soda and vinegar react to produce carbon dioxide gas that fills the baggie and causes it to pop. The gas is the product of the reaction between a solid and a liquid, so it is an easy way to tell that a chemical raction is happening.