

Inquiry Question

Can I blow up a balloon without using my breath? How?

Name: _____ **Date:** _____



Chemistry is all about the way different things are put together, also how they react under different conditions.

It is also a base for physics so there is overlap. In this case we are going to do a chemical reaction to see if we can see the energy leave.

The law of energy conservation tells us that energy cannot be created or destroyed so when we do a chemical reaction where does that energy go?

General Instructions

Use the worksheet on the next page to record your findings.

Materials you'll need:

- Balloon
- Baking Soda
- Vinegar
- Bottle (plastic or glass)
- Funnel optional

Hints and Ideas:

- Instructions:
 - o Blow up the balloon a bit to stretch it out some.
 - o Use the funnel and teaspoon to add baking soda to the balloon. We started with 2 teaspoons and added a teaspoon for each balloon.
 - o Fill the container with Vinegar halfway
 - o When your balloons are all made attach to containers making sure you have a good seal!
 - o Lift up the balloon to dump the baking soda into the container of vinegar
 - o Watch the balloon fill up
 - o To get the most gas out of it, we swirled around the container to get it all going!

Project Submission

You can either submit picture or file of this project.

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Prediction: What do you think will happen?	What did you see?	Why did that happen?