

UP, UP AND AWAY

PURPOSE: Children will observe a chemical reaction.

MATERIALS:

Book Topics: chemical reaction, chemical change

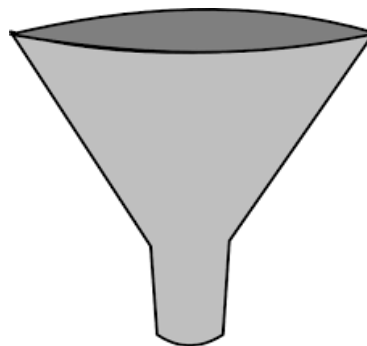
1/2 cup vinegar

1 balloon

Baking soda

1 small empty water or soda bottle

Funnel, teaspoon



PROCEDURE:

1. Pour 1/2 a cup of vinegar into a small soda or water bottle.
2. Place the balloon on the narrow part of the funnel.
3. Add baking soda gradually to fill up the balloon almost to the top.
4. Remove the balloon carefully from the funnel and place the balloon tightly without spilling the baking soda into the bottle.
5. Have a family/friend predict what will happen to the baking soda and vinegar mix.
6. Hold the balloon so that it does not come off the bottle. Gently release the baking soda into the bottle.
7. Feel the bottle and the balloon. Describe how they feel.
8. Describe what happened to the balloon.

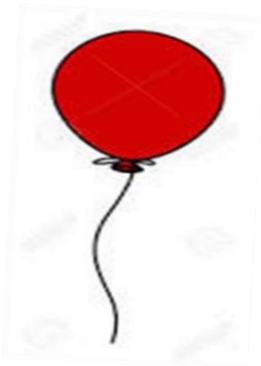
HOW IT WORKS: When vinegar and baking soda are mixed a gas is formed. This is called a chemical reaction because a new substance (gas) is formed. This gas is carbon dioxide, the same gas that is in soda pop. The gas causes the balloon to inflate. During the chemical reaction, heat is transferred, and the bottle and balloon feel cool.

WRITING PROMPT

You learned that a chemical reaction produces a new substance.

Think about the experiment you just did. Think about the chemical reaction.

Now write a story that tells about the time you created an unusual chemical reaction. Explain what you mixed together and what happened.



Parent Signature: _____

**FAMILY SCIENCE PROJECT**

Date: _____

Name: _____

Teacher: _____

Hypothesis (What do you think will happen?)

Date/Observation:

Conclusion: (What you learned or discovered):

*(*You may continue your observation on another sheet. You may want to create a graph to record your data.)*

For the reading portion of Family Science, you may choose to read a book or an article, **OR** you may use the Internet in order to find some background information concerning this Family Science Project. If you read a book or an article, please include the complete title and author. If instead you looked up the information on the Internet, please include the complete website.

We read the following book, **OR** researched the information on the Internet:

Book Title: _____ Author: _____

Complete Website: _____

Writing Prompt (minimum 5 sentences)
