

# Chemical Changes: Lab 1

**Purpose:** To see and measure the effects of a chemical change.

**Hypothesis:** What do you think is going to happen when we acetic acid and baking soda?

## Procedure/Results:

### Materials:

- Flask
- Acetic acid
- Sodium bicarbonate
- Balloon
- Chemical spoons

### Before The Reaction Takes Place

1. Pour the acetic acid into the flask using the graduated cylinder.
2. Add the thermometer to the flask and take the temperature of the acetic acid.

	Temperature
Acetic Acid	____ °F

3. Describe the color and odor of the sodium bicarbonate and the acetic acid in the table below.

	Color	Odor
Sodium Bicarbonate		
Acetic Acid		

4. Place 5 grams of sodium bicarbonate into the balloon.
5. Keeping the thermometer in the beaker, carefully wrap the balloon on top of the flask so that no sodium bicarbonate spills into the flask.
6. Tilt the balloon up so that all the sodium bicarbonate falls into the flask.

### After The Reaction Takes Finishes

1. Remove the balloon.
2. Using the thermometer, record the temperature of the mixture.

	Temperature
Acetic Acid	____ °F

# Chemical Changes: Lab 1

3. Describe the color and odor of the mixture in the table below.

	<b>Color</b>	<b>Odor</b>	<b>Sound</b>
New Mixture			

4. Were any gases or solids produced?

## **Conclusions:**

1. What proof do we have that this was a chemical reaction?
2. Explain if you think this lab presented us a good example of a chemical reaction? Why?
3. Predict what would happen if we used double the amount of each of the materials.