**Lemon Volcano Experiment**

Procedure:

1. Cut a small cone off of the lemon (or any citrus fruit) if not pre-done
2. Mash up the inside of the lemon using a popsicle stick
3. Squirt a small amount of dish soap into the lemon
4. Add any food coloring (just for color)
5. Mix in a teaspoon of baking soda
6. Watch the lemon erupt!

Reaction explanation:

Lemons and other citrus fruits have citric acid in their juice making them acidic (pH is less than 7). Baking soda also known as sodium bicarbonate is a base (pH is greater than 7). When an acid and base are mixed together a chemical reaction occurs in which the acid gives a hydrogen atom to the base causing a reaction. In this case, the hydrogen transfer is shown by an eruption. The dish soap and food coloring are both bystander molecules. The dish soap makes it more bubbly and the food coloring adds color to make it more entertaining.

