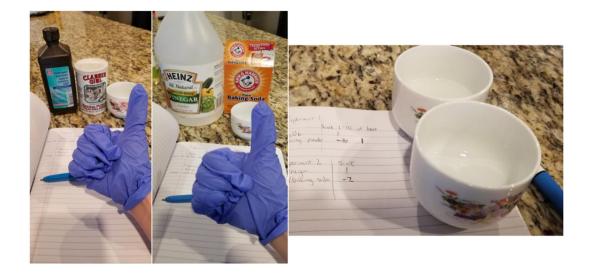
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Acid & Base Thermodynamics in your Kitchen

Author: Adapted from this Twitter thread

Description: Learn about thermodynamics in your kitchen! All you need is a few simple household materials.



What you will need:

- 2 small drinking glasses
- Thermometer
- 2 teaspoons
- Baking soda
- Baking powder
- Vinegar
- Hydrogen Peroxide

Experiment 1

Instructions:

- 1.) Add hydrogen peroxide to one glass about 1-2 inches high.
- 2.) Place a thermometer into the glass and record your reading. If you do not have a thermometer, touch the side of the glass and record the temperature on a 1-10 scale, 10 being extremely hot.
- 3.) Add a teaspoon of baking powder and stir it into the hydrogen peroxide.
- 4.) Repeat step 2 and record your change in temperature.

Experiment 2

Instructions:

- 1.) Add vinegar to one glass cup about 1-2 inches high.
- 2.) Place a thermometer into the glass and record your reading. If you do not have a thermometer, touch the side of the glass and record the temperature on a 1-10 scale, 10 being extremely hot.
- 3.) Add a teaspoon of baking soda and stir it into the hydrogen peroxide.
- 4.) Repeat step 2 and record your change in temperature.