Chemical Changes vs. Physical Changes

Materials List

*Always wear your safety gear!

Physical Change/Chemical Change Demos:
- ½ Cup Water
- 1-2 Tbsp Salt
- 1-2 Tbsp Lemon/Lime juice
- 1-2 Tbsp Baking Soda

Expanding Balloon Experiment:
- ¼ cup Vinegar
- 1-2 Tbsp Baking Soda
- Balloon
- Measuring scoop
- Funnel (optional)
- Bottle with a narrow neck (12-20 oz soda/water bottle works well)

Exothermic Reaction Experiment:
- 1 Tbsp Yeast
- ¼ cup Hydrogen peroxide
- Thermometer (optional)

Elephant’s Toothpaste
- 1 Tbsp Yeast
- ¾-½ cup Hydrogen peroxide (video uses a 3% solution; a stronger solution will yield a bigger reaction)
- 1 Tbsp Dish soap
- Bottle with a narrow neck (12-20 oz soda/water bottle works well)
- Food coloring (optional)

pH Change Experiment:
- 3-4 leaves of Red cabbage
- Blender
- Strainer/Coffee Filter
- Several different glasses/containers
- Various liquids to test (¾-½ cup each) – video uses vinegar, lemon juice, tap water, baking soda solution, hand soap solution, window cleaner