

## Mix it Up!

#### **Pre and Post Visit Materials**

The goal of this program and its pre and post-visit activities is to learn about different areas of science.

#### **Pre-Visit Activities**

- 1. Go over new vocabulary words as a class. (some words may have multiple definitions but the ones pertaining to the program are listed)
  - Acid: a compound having a PH level lower than 7
  - Base: a compound having a PH level greater than 7
  - Chemical Change: irreversible change where two or more elements combine to create a new substance
  - Chemistry: the science of studying elements and what they are and what you can do with them
  - Compound: the combining of two or more elements
  - Element: a chemical substance which cannot be broken down any further.
  - Endothermic reaction: a chemical reaction that absorbs heat from its surroundings
  - Exothermic Reaction: a chemical reaction that produces heat
  - Molecule: the smallest physical unit of a compound
  - Non-newtonian fluid: a fluid that reacts to force in unexpected ways.
  - pH: the scale with which to test acids and bases
  - Physical Change: a change in the state of matter, solid to liquid to gas. It can be reversed.
  - Polymer: a long string like molecule
  - Sublimation: solid to gas
- 2. Alka-Seltzer States of Matter
  - Worksheet attached.

## **Post-Visit Activities**

1. Have the student's journal about their trip. The prompt should be, "What was your favorite part of the trip to the museum?" They can either write or draw their response.

## 2. Gummy Molecules

- Materials: candy gum drops, tooth picks
- Assign the different colors of gum drops an element
- Have students use the tooth picks to create common simple and compound molecules.



# Plop Plop Fizz Fizz

Materials: Alka Seltzer, Glass of water

Introduction: matter comes in three states: solids, liquids, and gases. Today we are going to look at a material that goes from solid to gas very quickly because of a chemical reaction.

- 1) Name three solids, liquids, and gases.
- 2) Open the foil pack of alka seltzer. Describe it.
- 3) Drop the tablet into the glass of water. What happens?
- 4) Place our hand over the mouth of the glass, what do you feel?
- 5) What do you think is happening and why?

