

Radical Reactions (3rd-5th grades) Post-Visit Activities

We hope that you enjoyed your visit to the Children's Science Explorium!

To help reinforce the concepts covered during today's field trip, we have prepared the following wrap-up activities for you to incorporate into the classroom.

Vocabulary List and Student Definitions (elementary level):

- **Atom:** particle of matter; building block of the universe
- **Matter:** the material substance of the universe that has mass and occupies space
- **Chemistry:** area of science that studies matter and the reactions of matter
- **Physical Reaction:** when the appearance of matter changes but the arrangement of atoms remains the same
- **Chemical Reaction:** when the atoms of one or more substances are rearranged, creating a new substance
- **Molecule:** atoms that combine to form small units of matter

Wrap Up Activities:

1. Investigate examples of mixtures, solutions and suspensions using the following:
 - a. Trail Mix (mixture)
 - b. salt water (solution)
 - c. rice in water (suspension)
2. Chemistry is used in our everyday lives from cooking, to eating, and brushing our teeth. The toothpaste we use to brush our teeth is even a part of chemistry. Try the following recipe to make your own toothpaste.
 - a. Each student (or student pair) will need:
 - Baking soda
 - Salt
 - Water
 - Food flavoring extract (peppermint, mint, orange, etc)
 - Spoons
 - Sandwich bags
 - b. Measure 4 teaspoons of baking soda, 1 teaspoon of salt, and 1 teaspoon of water into a sandwich bag.
 - c. Add a drop of flavoring.
 - d. Seal the bag tightly, while pushing out the extra air. Mix the ingredients with fingers by pressing the outside of the bag.
 - e. Compare the toothpaste to brand name toothpastes. How has toothpaste improved over the years?
3. Further investigate chemistry in the human body, such as the process of digestion.