

Crazy Chemistry (2-3)

Hello! This document includes a brief outline of our Crazy Chemistry workshop, as well as relevant BC ADST curriculum connections. In this workshop, students will complete multiple experiments to learn about the difference between chemical & physical changes.

If you'd like to register for our workshops, please fill out our registration survey linked [here](#).

<p>BC Curriculum Ties (In addition to satisfying multiple core competencies)</p>	<p><u>BC Applied Design, Skills, and Technologies Curriculum Links 2-3:</u></p> <p>Complex tasks require the acquisition of additional skills & complex tasks may require multiple tools and technologies.</p> <ul style="list-style-type: none"> • <i>Applied Design:</i> <ul style="list-style-type: none"> ○ <i>Ideating - Identify opportunities for designing through exploration & choosing an idea to pursue.</i> ○ <i>Making - Making a product using known procedures/tutorials.</i> ○ <i>Sharing - Decide on how to share & display their products.</i> <p><u>BC Science Curriculum Links 2-3:</u></p> <p>Materials can be changed through physical and chemicals processes.</p> <ul style="list-style-type: none"> • <i>Questioning and Predicting:</i> <ul style="list-style-type: none"> ○ <i>Demonstrate curiosity and sense of wonder about the world.</i> ○ <i>Observe objects and events in familiar contexts.</i> ○ <i>Make simple predictions about familiar objects and events.</i>
<p>Grade Levels</p>	<p>2-3</p>
<p>Time</p>	<p>1~1.5 Hours</p>
<p>Goals of the Workshop</p>	<ol style="list-style-type: none"> 1. Understand the difference between chemical and physical changes. 2. Practice observing experiments. 3. Follow instructions/scientific procedures.

Activity Descriptions

Balloon Inflation Demo

Objective: To learn about physical and chemical changes by creating a gas using household items.

Participants will:

- Learn about the differences between chemical & physical changes.
- Observe as we combine baking soda and vinegar, that will release a gas to inflate a balloon.

Heat Pack Demo

Objective: To demonstrate how chemical changes are usually accompanied by a heat change through completing a science experiment.

Participants will:

- Participate in a demo where calcium chloride, baking soda, and water is added into a ziploc bag. After the bag is sealed & shaken, the chemicals will undergo a chemical change and the bag will expand & get hot!

Sensational Slime

Objective: To have students create their own chemical changes by making slime!

Participants will:

- Learn how a chemical changes' properties can be adjusted, by having the student's slimes become more solid or liquid based on the ratio of contact solution to baking soda.
- Figure out the best ratio of contact solution to baking soda, so students can determine how to make the best slime using tests, similar to how scientists conduct science experiments!

We can't wait to connect with your school & expose your students to the STEM field with our exciting, hands-on STEM activities!

