



Crazy Chemworks

Colorful and explosive experiments! Young chemists dive into the world of surprising reactions, mysterious liquids, and the famous slime. Here, chemistry becomes a fascinating playground.

Description:

Children experiment with **chemical reactions, pH, light, dry ice, and the ever-popular slime.**

They use lab equipment, test different glues, observe fluorescence, and take part in a fun slime competition.

And so much more...

Each system offers a unique selection of workshops, different from the others, so children can enjoy new discoveries every session.

This list is not exhaustive; content may vary to provide each group with an adapted, surprising, and captivating experience.

Lab Works:

Students become lab scientists-in-training in this whirlwind program on laboratory techniques! Each student will learn to manipulate an assortment of lab equipment in a series of hands-on activities. They will learn to transfer droplets using a *pipette*, and larger quantities using a *stirring rod*. They will also learn to *swirl* with an Erlenmeyer flask. The program ends with a cool demonstration by the instructor to show off the lab techniques learned in class.

Junior Reactors:

Students are introduced to the concepts of *atoms* and *reactions*! A demonstration of the differences between physical and chemical reactions is followed by a hands-on series of experiments. The relative size of an atom is introduced in a cutting edge race as the children try to reduce a strip of paper down to its atomic size! The class wraps up with a creative *molecular* session.

pH Phactor:

Students explore the crazy chemistry of acids and bases in this fascinating one-hour program on the pH scale. The pH Phactors *hydrogen* and *hydroxide* give a colorful introduction, and the Phantastic pH test is applied to common household chemicals. Students are challenged to bring a mystery liquid to a perfect pH balance. The Phestival ends with a Stopper-Popper reaction!

Slime Time:

The Mad Science slime recipe is revealed in this ooey gooey chemistry class! Students will learn about slime and its basic ingredients in a series of hands-on activities. *Polymer* paper clips and *cross-linking* magnetic marbles will help to examine the key components of slime. Varied concoctions of slime will stir up in scientific style, and the properties of slime will be tested!

Chem in a Flash:

Children take a trip through several fields of chemistry and discover the factors that can change the rate of a reaction. The class begins with a role-playing activity in which volunteers act out two different rates of reaction. This is followed by a hands-on demonstration on *oxidation* where the role of salt—as a *catalyst*—is observed. The instructor demonstrates quick-acting reactions such as *precipitation* and acid-base reactions, followed by a balloon-expanding experiment to test *limiting reagents* (The class wraps up with a color-changing *electrolysis* demonstration that covers these cool chemical concepts.

The Glow Show:

This class concentrates on how we perceive light and its effect on objects. The concept of how colors are perceived in white light is presented using a hands-on, tricolor experiment. Next, the nature of *fluorescence* and *phosphorescence* are unveiled in a black light demonstration. A discussion on the commercial applications of glow-in-the-dark products is followed by a challenge to find fluorescing materials among common objects. *Chemiluminescence* is demystified using a flashlight analogy.

Super Sticky Stuff :

Children will get *stuck* on science in this one-hour class on sticky stuff! The class begins with a close-up examination of how Velcro hook-and-loop fasteners work. This is followed by a hands-on experiment with different types of tape adhesives. Wet glues are introduced in two inquiry-based experiments. Children learn how to perform a ranking test, and determine the optimal glue to use on various materials.

Dry Ice Capades :

Children in this class will probe the shifting states of matter through a series of engaging demonstrations and inquiry-based activities. The class warms up with a molecular movement exercise to learn about the three states of matter. Next, students will observe chemical concoctions and bubbling fountains. Dry ice—the star of the show—used in a series of tests, under the guidance of the instructor, explores the properties of matter at extreme temperatures. The class rolls toward a grand finale that engages the group in catching a cloud.