

Chemistry Workshops

in Elementary School Classrooms

Pricing, scheduling, format

\$5/student for 1-1½ hr lesson (including materials)

Workshops can be run before recess and/or after recess and/or afternoon

No more than two different workshop topics can be run in one day

The teacher must be present in the classroom during the workshop

All workshops can be adapted for any K-7 grade level



Chemistry Workshops

Topic	Activity details
State changes and molecules	Observe state changes in water. Understand at the molecular level by acting out the molecules. Older students measure water temperatures, with optional graphing of melting and boiling points. Make popcorn and understand how water changing state makes it pop.
Introduction to chemical reactions	Make a soda drink. Optional: use molecule models to understand the chemistry. Optional (younger grades): free play mixing solids and liquids, to discover chemical reactions. Optional (older grades): compare soda drinks made with other juices and graph results. Optional (any age): use the same reaction to set off film canister rockets
Cooking and chemical reactions: bread	Make bread, discover what makes the dough rise, and model the chemical reaction that causes rising. NOTE: need oven
Physical changes, solutions and their separation	Epsom salt crystal painting with physical changes worksheet. NOTE: need microwave Optional: use chromatography to separate the components of a solution Optional: use red cabbage dye to investigate concentration
Mixtures with a focus on colloids	Mix household chemicals to discover suspensions, solutions and colloids. Explore the properties of colloids with butter or oobleck. Concepts best for intermediate grades.
Other Chemistry topics can be developed into workshops. Please contact /see www.ingridscience.ca for ideas.	

Instructor



Ingrid Sulston, PhD, has 24 years of experience teaching hands-on science in schools, science centres and botanical gardens in Vancouver, New York City and San Francisco. The past eight years Ingrid has primarily worked in Elementary school classrooms in Vancouver, as a consultant and as a Scientist in the Vancouver School Board's Scientist in Residence Program.



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