

Chemistry Workshops

in Elementary School Classrooms

Pricing, scheduling, format

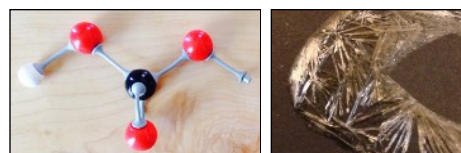
\$4/student for 1-1½ hr lesson (including materials) through 2017, then \$5

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

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

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

The teacher must be present in the classroom during the workshop



Chemistry Workshops

Topic	Activity details
State changes and molecules	Use dyes to visualize molecular motion, then act out the molecules. Observe state changes in water and understand at the molecular level. Older students measure water temperatures, to graph melting and boiling points. Make popcorn and understand how water changing state makes it pop.
Introduction to chemical reactions: soda drink	Make a soda drink, and use molecular models to understand the chemical reaction. 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 flubber (NOTE: need microwave), butter or oobleck.
Other Chemistry topics can be developed into workshops. Please contact /see www.ingridscience.ca for ideas.	

Instructor



Ingrid Sulston, PhD, has 23 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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