

Elementary Workshops

Our interactive workshops are designed to appeal to the interests of elementary students in grades 1-6, and they are packed with challenging activities. Each workshop can be completed in one session or combined with other courses to create a themed science series that can carry over several days or weeks; we can also break up the series classes into individual workshops. Each workshop lasts one hour and includes discussion, demonstration, and hands-on activities. Most workshops include a "take-home" item related to the topic.

We recognize the range of ages and abilities in the elementary grades and adapt our workshops to target students at various levels; activities, demonstrations, and discussions are flexible enough to accommodate your students' academic needs and learning interests.

If you'd like a workshop about a topic you don't see, give us a call. Our list of classes is always growing, and we are happy to talk with you about how our offerings align with your curricular standards. With advance notice, we can even custom-build a workshop for you!

Single Class Workshops

\$140 per one-hour workshop, maximum 25 students or by arrangement; see the series classes below for sample pricing of multiple-workshop series.

3, 2, 1 Blast Off!

Learn the principles of rocketry and the science of model rockets. Participate in an actual rocket launch (weather permitting).

Abracadabra! The Science of Magic

Many of the tricks and illusions performed in magic shows are actually demonstrations of scientific principles in action. In this workshop, you'll learn the science behind a number of these tricks and attempt to perform them yourself!

Acid Basics

A basic look at simple chemistry. Learn about proton donors and acceptors, and see how substances with these properties interact. Includes secret messages, small explosions, and more!

Blocks, Bricks, and Builders

Engineers use all kinds of materials to model and build their creations. In this class, we will explore scale, ratio, patterns, and problem solving through a series of creative challenges using scale drawings and block and brick systems.

Cellular Science

What are the smallest building blocks of every living thing? Learn about cell membranes, mitochondria, and ribosomes as you assemble a model cell.

Centrifugation

A centrifuge is an amazing tool used by scientists to separate things that seem impossibly mixed. Learn about Newton's laws and the differences between centripetal and centrifugal forces, and use a microcentrifuge to separate pigments in tempera paint.

Chemical and Physical Changes

Explore the ways energy and matter interact to create different kinds of changes. Activities include changing shape, size, and color (physical changes) and changing matter via chemical reactions such as acid/base reactions and burning.

Chromatography

Learn about pigments and solvents in this color-filled class. Students learn about color-mixing, complementary colors and more as they create chromatographic art.

Detective Academy

Learn how to fight crime with science! Observation, critical thinking and open minds are important for scientists and detectives alike. At the Egad! Science Detective Academy, you will practice these skills, study fingerprint identification, and extract DNA from a simple plant source.

The Earth Rocks!

How are rocks formed, and what is the rock cycle? Discover how geologists categorize rocks and model the creation of rocks with a variety of materials.

Five Fabulous Senses

Learn what the five senses are and how the senses work both separately and together. Test your senses with our tricky scientific experiments.

If You Can't Take the Heat...

Explore the properties of heat energy and learn how heat can create, change, and move matter.

It's Electric!

Learn the "shocking" truths behind static and circuit electricity. We will experiment safely with both kinds of electricity to see how it can be harnessed and put to use.

Incredible Ice

What's colder than winter and more fun than a snow day? Dry ice! Join us to learn about the properties of this amazing material as we make metal scream and coins shiver with

chunks of solid CO₂.

Lights, Color, Action!

Explore light and shadows, catch a shadow with phosphorescence, and check out ultraviolet effects. We will also use prisms to break white light into colors, then mix colored light to see what happens.

Make it Fly!

Learn about the forces of flight, and prove to yourself that Bernoulli's principle really works. Then put it all into practice with a flock of paper airplanes.

Marvelous Molecules

Molecules are the building blocks of matter. Learn about molecular structures and composition as you observe, experiment with, and build models of many marvelous molecules!

Moving Right Along

Discover Newton's Laws of Motion and explore their effects as you learn about inertia, momentum, and action/reaction with amazing interactive experiments.

Olympic Science

Olympic sports are all about physics. Explore the scientific principles of sports and Newton's Laws of Motion. You'll see the Olympics in a whole new way!

Plant Life Cycles

Explore the life stages of flowering plants. Learn which parts of a flower become seeds and fruit and what is inside seeds to make a new plant. Engage in plant dissection and plant a seed to take home.

The Top-Secret Science of Spying

How do spies use science to gather, communicate, and hide information? In this workshop we'll learn about science tool and principles used by spies and several ways to send and decode secret messages!

Slime Science

Polymers are all around us, in both natural and man-made products. Explore the properties of these versatile objects and create a slimy polymer to keep.

Taste Temptations

See how taste buds work. Explore how taste and smell are linked as you take part in taste tests and flavor challenges.

Tower Power

Discover the forces that hold up our world: tension, compression, torsion, and more.

Work as a team to build pasta towers that can stand tall, bear a load, and endure a gale-force wind!

Wonderful Worms

Wiggle like a worm and experience life like everyone's favorite invertebrate. Learn what worms eat and how we benefit from their appetite.

Workshop Series

\$840 per six-session series, maximum 25 students or by arrangement; also available as individual workshops.

Beyond Biomes Series

Groovy Grasslands

Learn the different names for grasslands all over the world. Explore grassland animal adaptations. Make prairie dog puppets and start grass seed!

Fantastic Forests

Learn about temperate forest trees, their structure, and how trees support other plants and animals. Learn how different animals are adapted to life in the forest.

Tropical Rainforests

Explore the layers of the tropical rainforest and the animals that live in those layers. Hunt for rainforest products. Make bromeliads!

Coral Reefs

Corals are animals, and reefs are formed from their skeletons. Make model coral and a viewer to explain the life cycle of coral. Learn about symbiosis among the many animals that make coral reefs their homes.

Tundra and Taiga

Learn about the weather in these extreme biomes. Learn how plants and animals adapt to cold, low moisture climates. Make food webs to show relationships between denizens of the tundra and taiga.

Hot Deserts

Explore how the landscape of the desert is shaped by its dry climate. See the adaptations desert organisms need to survive harsh temperatures and little water.

The Green Scene Series

Ecosystems

An ecosystem is made up of both the living things in a place and the non-living things around them. See how energy flows through ecosystems, and how physical matter is recycled over and over.

Recovery Discoveries: Plastics

Do you wonder why we have codes for plastic recycling, but not for glass, paper, and aluminum? Learn why recycling is important and what happens if we simply dump everything in a landfill.

Non-Stop Drop

Learn about the water cycle, with an emphasis on the less familiar area of groundwater. See steam condenses into water, learn about aquifers and how the recharge area can be a long way from the outflow, and be introduced to the basics of water treatment.

Landfill Lost & Found

Take a closer look at solid waste, landfills and the ground around them, and high tech trash. Together we will figure out what should and should not be sent to a landfill.

Power Pack

We'll talk about what things USE energy and where we get the energy we use. Together we'll explore solar power, wind power, water power, fossil fuels, and geothermal power--and how to be economical when using power.

Pollution Solutions

In our final class, we'll pull together what we've learned about ecosystems and human communities to see that we must reuse material over and over again and be efficient when using energy. We will problem solve and propose solutions to the pollution that threatens our home.