

Mad Science In-Class Workshops

We are on a mission: By making science fun we aim to inspire an interest in science and a love of learning in children that will last a lifetime. The following educational programs are 60 minutes in length and accompanied by a, "Pre and Post Activity Resource Guide" distributed to teachers so they can perform experiments before and after the program with their students to extend and reinforce the learning experience. They include take homes for students and a take home card that indicates "what we learned" and introduces "Lets try this at home" activities to reinforce what was presented.

Although some of our workshops are targeted towards particular grade ranges – all can be adapted for any grade level and aligned with your grade level benchmarks. Call us for more information and/or to let us help you select the most appropriate program.

Mad Science Party

Can't decide what to do? This is one of our most popular workshops and just pure science fun. It comprises the best of different science areas and aims to spark an interest in science. Great for class rewards, end-of-year and special occasions (has a Halloween theme option). Lots of additional options available like hovercraft rides, Cotton candy, rocket launches, dry ice effects, etc....

LIFE SCIENCE Living Systems

Body Basics

Study the science of your insides by learning our major human body systems. Discover how your food is digested, how your blood flows through your body and how your brain controls all of these parts.

Decomposers

Take some worms, add a little garbage and what do you get? - Fertilized soil and a whole lot of fun. This workshop allows children to gain an understanding of the concept of decomposition.

Seeking our Senses

Explore all five senses. Test your vision with optical illusions, experiment with your hearing, and try your hand at reading Braille.

Tantalizing Taste

Experiment with taste sensations while "mapping" out the tongue. Use taste testing to compare your sense of smell and taste. Carbonate and taste your own soda pop and take the "Mad Science" taste challenge...

All About Animals

Explore the unique features of animals. Adaptation is the major theme as students will explore way in which animals adapt to the challenging elements of their environment.

Bugs!

Discover what makes our creepy crawly friends unique; their fabulous flying abilities, their special eyesight, and the way that they defend themselves against predators. Experience how bugs see the world by taking home your own insect-a-vision.

Mission Nutrition

Food and calories are the theme, as the keys to fitness and other essential components of a healthy diet and lifestyle are uncovered. Take home pedometers and a mileage log offer a fitness tool to start measuring steps taken on the road to a healthier you. Take the challenge - get healthy!

Cells

This hands-on workshop provides students with an introduction to cell structure, including an understanding that cells are the building blocks of all living things, basic cell process and cell division.

Photosynthesis

This workshop introduces photosynthesis, including an understanding of the chemical processes at work in the plant, plant respiration, and the role of plants in food webs.

Optical Illusions

Focus on your sense of sight and how your mind plays tricks on you. Build your own periscope while exploring optics and reflection. Watch celebrity images change before your very eyes! Seeing is not always believing...

Ecosystems

Investigate the interconnections present in nature. Students will build ecosystem models, explore the elements of energy webs, reflect on how humans impact ecosystems, and use field journals for everyday explorations and more.

Earth Awareness

Explore water filtration. Learn about smog and the world's deadliest predator – packaging. With each topic design a pollution solution. Discover the incredible properties of water Jelly Marbles and take some home to amaze your family.

EARTH/SPACE SCIENCE

Walloping Weather

Discover how hurricanes, and other storms develop, and how powerful they can be! Our junior meteorologists will be making forecasts, consult their personal UV detectors to check whether it's time to cover up and become experts in hurricane preparedness with materials to take home

Mineral Mania

Recreate the process of rock formation and devise ways classify rocks and minerals. Experience the thrill of panning for gems to find, and take home for further study and investigation.

Earthworks

Take a voyage to the center of the Earth! We'll investigate the powerful processes that shape the planet and form remarkable rocks, magnificent minerals, and glittering gems! Children will take home sedimentary stackers that they made themselves.

Dinosaurs

Examine real fossil casts, and explore the differences in herbivores and carnivores dinosaurs. Students will participate in a mini dinosaur excavation and make a cast of a dinosaur tooth to take home.

The Dirt on Garbage

"Waste not Want not..." Learn how to improve our planet through waste reduction by exploring the concepts of reducing reusing and recycling

Black & Blue Oceans

Explore the world of pollution and its effects on animals and our environment. Students will devise and test oil spill techniques in a mock oil spill and learn all about the pollution that plagues the oceans.

SPACE - NASA JOINTLY DEVELOPED WORKSHOPS

Planets and Moons

Explore the farthest reaches of our solar system and create a lunar eclipse in this "mad" planetary tour! Learn how the planets stack up. Build and take home Kepler's Cube™, a fun and educational 3-D solar system puzzle!

Atmosphere and Beyond

We're on a mission to explore the atmosphere on Earth, and beyond! Travel to the end of the rainbow and make a sunset! Mix up various planetary atmospheres, one molecule at a time! Discover how stars would look in space and see what makes stars twinkle using your very own Shimmering Stars™!

Space Phenomena

Probe the mysteries of meteors and bounce around satellite light in this phenomenal program on space events! See comets up close as one is formed before your eyes, and take home your very own Catch-a-Comet™!

Sun and Stars

This stellar program is your ticket to the stars! Watch star dust burn, and journey through a soapy galaxy as you investigate the life cycle of stars! Use your Bead Dipper™ to create a 3-dimensional glow-in-the-dark constellation!

Rocket Science

This is your chance to be a rocket scientist! Investigate the four forces of flight with the help of a Unique Flying Object! Explore the science involved in rocket construction as you build your own Skyblazer II Rocket™ that you can take home!

Space Travel

Learn what it takes to be a true globetrotter! Race a balloon rocket and design your own car engine as you learn about thrust. See the principles of propulsion at work in a real rocket launch, and build your very own Shuttle Copter™ to fly to the skies!

Space Technology

Discover technology designed for outer space! Steer a laser beam through a laser maze, find hidden mountains using the principles of radar technology and discover everyday objects originally designed for use in space! Take home a Lightning Launcher™ that will light up the sky!

Living in Space

Live the life of an astronaut as you suit up for space flight! Find out how much you would weigh if you lived on Pluto and how old you would be if you lived on Saturn. Participate in a space mission and make your very own Cosmic Chronometer™ watch to measure the time here on Earth

PHYSICAL SCIENCE - Matter

Kitchen Chemistry

Cooking is all about chemistry! Students will be introduced to the laboratory that we call a kitchen for a look at some novel and practical applications of science! Children will build their own Solar Cooker and learn how living organisms cause bread to rise. Dinnertime will never be the same!

Slippery Science

This class demystifies one of the most beneficial molecules known to humankind...Polymers! Students will get to make their very own take home slime...

Matter of Fact

Explore molecules and how they are held together. See the dramatic differences between physical and chemical changes as you mix up a batch of your very own Mad Science Putty to take home.

Playing with Polymers

Discover the mystery of chemical and physical changes in matter. Dissolve Styrofoam with a mystery chemical and make your very own slime to take home and experiment with.

Harnessing Heat

Witness a mini rocket launch while learning the properties of heat. Change the states of matter, turn solid candy into floss and make your very own cotton candy that you can eat!

Science of Magic

Magic? No... It's science! You'll learn the secrets behind famous magic that you can recreate for yourself! Mother Nature has some tricks of her own, and we'd like to show you what's up her sleeve!

Che-mystery

Eliminate the mystery in chemistry! Explore one of the most exciting and fundamental sciences as you grow a crazy crystal garden and make your own "chemical" soda pop!

Mix It Up

Let's do the "SEPERATION SHAKE!" – There will be a whole lot of shaking going on as we explore how matter can be mixed in the form of solutions, suspensions and mixtures. We will discover how anti-acid works in our stomach, create soap by salting it out of solution, and receive a super mixture sorting kit.

Junior Reactors

Create a tiny world of atoms with your very own set of Atomic Coins™! Learn to recognize chemical reactions and mix up a few reactive ingredients for some sensational results!

Phantastic p.H. Phestival

Slide down the colorful pH scale and dip into the world of acids and bases! Explore the extremes of pH with your Reaction Tube™ in what is sure to be a stopper-popping experience! Discover whether liquids found in your home are acids or bases using your personal Phantastic pH Paper™!

Slime Time

Ooze into a gooey hour of sliming around! Create slime using the Mad Science recipe, and then enter your creation in the Slime Olympics! Take home your own concoction of Mad Science Slime™!

The Glow Show

Amazing discoveries will come to light in this class on things that glow bright in the dark! Probe the properties of light and explore some unusual applications of glow-in-the-dark technology—including the printing of money! Use your Blacklight Writer™ to make secret messages that only you can see!

Dry Ice Capades

Manipulate matter in all of its three states! Melt metal in boiling water and freeze water with just a breath of dry ice! Use your Thermo-color Cup™ to test the temperature of liquid matter in your home!

Icky Sticky Stuff

Stick to the walls, and push the power of tape to the limits in this adhesive hour on things that cling! Build a bond with glue and get attached to your Icky Creature Beaker!

Chemistry Corner

Hop on the chemistry express for a high-speed science experience! Perform instantaneous experiments in this fast-paced class on reactions that go like mad! Pick up an Action Flask and perform some snappy chemistry experiments at home!

PHYSICAL SCIENCE – Force & Motion

Where's the Air?

This dynamic class explores the force and fundamental concepts of air pressure and buoyancy through hands-on experimentation and thought-provoking demonstrations.

Mischievous Magnets

What makes metal magnetic? What shapes do magnetic fields invisibly form around different shaped magnets? Can compasses really help you to find your way? Discover the answers to these and many more questions about magnets and their fields.

Moving Motion

Action equals reaction in this energetic workshop; Discover Newton's 3 laws of motion performing experiments with friction, inertia, gravity and other physical forces affect movement. Buckle up for a spectacular demonstration of these forces with a hovercraft ride for all interested pilots.

Under Pressure

Mad Science Workshops

Join Bernoulli and Newton as we take this exciting look at the science behind aerodynamics and the properties of air... under pressure. Use a vortex generator to create air pockets with a punch, and levitate ping-pong balls in defiance of gravity!

“Fun”- damental Forces

Gravity... Inertia... Centripetal force... who could ever imagine that an introduction to physics could be so much fun? We'll experience these awesome forces for ourselves and build some cool devices to watch them at work!

Stunt Planes & Gliders

The Wright Brothers would be proud as we follow in their footsteps and learn the basic principles and forces of flight. Build a “football” glider, control surfaces and your very own loop-flying stunt plane. You'll be a Top Gun after this class!

Super Structures

Discover the strengths of triangles, cylinders and arches. Learn how combinations of these shapes make for sturdy homes and skyscrapers! Use teamwork to build your own super structures as well as an earthquake-proof building!

PHYSICAL SCIENCE – Energy, Electricity, Light & Sound

Super Power Sources

Discover the science behind renewable energy resources – our power of the future. Create an amazing sunspot with solar power, follow the flow of electrons through a turbine, create wind energy and experiment with a car powered by water? Power a flashlight with your own hand.

Energy Burst!

Explore the energy of motion (potential versus kinetic energy), and how energy can be conserved. Build a rubber band-powered rattlesnake egg to help learn all about energy — and scare your friends.

Watts-Up

Learn about Static electricity, its properties and its role in natural phenomena. Make indoor lightning while conducting hair-raising experiments with our electro-static generator and Tesla Coil

”Current” Events

Take a tour on the electron freeway! Conductors, insulators, transistors, and other elements in the world of circuit electricity introduce themselves to you via the tingle in your fingertips and the twinkle in your eye...

Electricity & Lasers

Excite some electrons as you construct circuits. Test various materials for conductivity with space-age plasma balls space-age plasma balls. Explore light, colors, and lasers. Use a laser to create illusions, design a light show and compete in a friendly game of Laser Limbo...

Lights ... Color... Action!

Uncover the hidden components in ordinary light and build your own Newton's color wheel to prove it. Attend a spectacular chemical energy display!

Sonic Sounds

Discover sound, sound waves and the way everyday items can be used to create amazing movie effects. Use our multi-effects processor to make a tape of your altered voice, with lots of cool special effects

PHYSICAL SCIENCE – Other

Lab Works

Try your hand as a real Mad Scientist in this whirlwind program on how a lab works! Learn to manipulate laboratory equipment at your personal lab bench, and face an egg-citing power pipetting challenge! Take home your very own Scientific Cylinder™ to continue your research!

Proud Members Of: AAAS American Association for the Advancement of Science NSTA National Science Teachers Association CSEF Children's Science Enrichment Foundation

Wacky Waves

Create your own multi-density wave bottles while learning about water, waves and the environment. Simulate the effects of an ocean oil spill and develop creative techniques to clean it up!

Detective Science

Discover how science is used to solve real crimes! Watch as the classroom is transformed into a crime lab for this exciting exploration of the fundamentals of forensics including analyzing fingerprints, teeth impressions. It's so much fun, its criminal!

Kitchen Chemistry

Cooking is all about chemistry! Students will be introduced to the laboratory that we call a kitchen for a look at some cool science! Children will build their own Solar Cooker and learn how living organisms cause bread to rise. Dinnertime will never be the same!

Mad Science Machines

Find out how simple machines make our lives easier: levers, wedges, incline planes, wheels and axles, and pulleys, through various hands-on activities. Assemble a catapult then build a Mad Science rocket racer to take home.

Movie Effects

Grab your popcorn! We're going to learn first-hand how and why science is the real star on the big screen! We will create our favorite special effects and see if you have what it takes to help make a movie. Investigate 3-D images and create your very own animation to take home. Science in Action!

Science of Toys

Children will discover the science behind some of their favorite toys in this fun-packed program! Find out how bouncing balls, yo-yos and string things work and build your very own toy called a Jacob's ladder to take home.

Radical Robots

In this session the focus will be on technology – Robotics! Explore how robots can be used to make our lives easier. Experiment with robots that can do some extraordinary tasks, infrared robots, robotic arms and even soccer playing robots. Build your own robot hand to take home.