

Mad Science In-Class Workshops

These educational programs are 60 minutes in length and correlate with National Science and Florida's Sunshine State (FCAT) Standards for Science. All workshops are accompanied by a "Pre and Post Activity Guide" distributed to teachers so they can perform experiments before and after the program with their students to extend and reinforce the learning experience. Mad Science workshops are hands-on, inquiry based and interactive in nature to ensure that children are provided opportunities to actively participate in the scientific method.

Grade 3 to 5 Workshops

LIFE SCIENCE WORKSHOPS

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.

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.

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.

EARTH SCIENCE WORKSHOPS

Black and Blue Oceans - Students will devise and test oil spill techniques in a mock oil spill and learn all about the pollution that plagues the oceans.

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.

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

PHYSICAL SCIENCE WORKSHOPS

Electricity - Excite some electrons as you construct circuits during this program all about electricity. Test various materials for conductivity with space-age plasma balls. create and play an electronic game

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

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!

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

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.

Playing with Polymers - Dissolve Styrofoam with a mystery chemical and make your very own slime to take home and experiment with.

Moving Motion – Action equals reaction in this energetic workshop; students will discover the science behind movement performing experiments with friction, inertia and other physical forces affect movement. Buckle up for a spectacular demonstration of these forces with a hovercraft ride for all interested pilots.

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!

Optical Illusions

Build your own periscope while learning about optics, reflection and sight. Watch celebrity images change before your very eyes! Seeing is not always believing...

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!

Under Pressure

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!

”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...

“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!

Wacky Waves

Create your own multidensity 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!

Stunt Planes & Gliders

The Wright Brothers would be proud as we follow in their footsteps and learn the fundamental principles 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!