



Mad Science

of the Bay Area



Preschool Workshop Descriptions

| Workshops appropriate for ages 3 through 5 | |
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| Adventures in Air | Learn that even though air is invisible it is all around you all the time. Learn that air has the power to both move items and to slow them down. Experiment with a variety of items that rely on the air to help them move. |
| Animal Friends | Learn all about animals and animal families. Make different animal sounds and noises. Discover why animals have different types of coverings, and feel fur, feathers, and scales. Make your very own animal mask to take home. |
| Butterflies | Find out all about butterflies – where they come from, stages of their growth and how they eat. Children get make their own butterfly bracelets to take home during this workshop. |
| Body Buddies | Meet Mr. Bones and learn about skeletons, muscles and the major organs in your body, including the most important muscle in your body. You will also get a chance to listen to it beat. |
| Color Me Cool | Come visit the exciting world of color. Make a new friend while learning about the colors of the rainbow and experiment with your creative side during an activity on color mixing. Make your very own Mad Dough to take home! |
| Digging for Dinosaurs | Rar! Get ready to work as a paleontologists by participating in a mini dinosaur dig! Learn the differences between meat eating and plant eating animals and look at some dinosaur teeth up close. |
| Energy & Motion | Explore the concept of energy and how energy gets things moving while playing with some of your favorite toys! Take home “Boinks” that will help you remember how energy and motion are related. |
| Eye to Eye | Experiment with magnifying glasses, kaleidoscopes and binoculars in this exciting workshop that will introduce you to your sense of light. Play with a variety of optical illusions to illustrate that your eyes can sometimes play tricks on you. |
| Fluttering Birds | Learn all about our fine feathered friends and take an up close look at birds. Discover how to match bird mates, see what eggs are produced by which species, learn how a bird’s beak is a tool and how to identify different bird’s songs. Take home bird warblers to practice your bird songs at home. |
| How Big? How Much? | measure all kinds of objects using balance beam scales, bathroom scales and even your own feet! Get introduced to the concept of estimation and take home a measuring foot to cut out with your parents. |
| Keep in Touch | Understand the world with your sense of touch. Can you meet the challenge of identifying a variety of objects using only their sense of touch? Recognize that some objects are safe to touch and others are not. |
| Let’s Look Closely | Discover a world that you might not have realized was there through the use of mirrors, microscopes and magnifying glasses. Reveal hidden pictures, learn about reflection and symmetry and use hand held microscopes to observe objects closely. |

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| Lights On | Rainbows and white light...learn that light helps us see. Explore how white light is made up of all the colors of the rainbow. Learn that shining light through different colored materials will change the color of light. |
| Listen Closely | Whiz, boom, bang! What is the science behind the sounds all around you? Experiment with a wave motion model and a twirling tube to understand sound waves. Learn about everyday materials that make special effects noises in the movies and will watch, and hear a bee buzz above your head. |
| Mad Mixtures | Learn all about chemistry by mixing stuff together. Make volcanoes explode and make colors explode and have a bang-up good time! |
| Magnetic Attraction | Experience the poles and power of magnets in this hands on workshop that even provides children with the opportunity to make their own magnet to take home. |
| Science of Music | Boom, tap, smack, cha-cha-cha, listen to the sounds and rhythm of the science of music. Feel, hear and see the vibrations that help create music in this hands-on exploration. |
| Sea, Sand & Surf | Explore the science of the sea and learn about what sand is made from, how shells are used by animals for protection and what animals live in the ocean. Make your own ocean bottle to take home. |
| Shapes & Structures | Discover different shapes and structures by using different kinds of equipment like Geoboards and Magnatiles. Create your own structure to take home using cornstarch based "noodles." |
| Space Frontiers | Put on your spacesuits and get ready to take a trip to the moon to pick up your very own moon rock! Learn all about the planets that revolve around the star we call the Sun. |
| Taste & Smell | Yummy and Yuck! Join us for a journey through your taste buds and sense of smell. Students will create their very own scented pictures to take home. |
| Water Works | Water is more complicated than it looks! Learn all about the different properties of water and experiment with floating, sinking, absorption and so much more. |
| Weather Wonders | Create a cloud in a bottle and make it rain inside! Learn all about the water cycle and weather patterns and design your very own windsock to take home. |
| Wiggly World of Worms | Get down and dirty learning all about worms! Get up close with a magnifying glass and explore the lives and habitats of our friend, the worm. |

MAXIMUM NUMBER OF 20 CHILDREN PER SESSION FOR PRESCHOOLERS.

In order to deliver our programs, we will need a room with tables/desks that the children can work at, access to water and electricity and a small table for the Instructor's equipment.

Please note, all workshops **MUST** be held before 12:30 PM.

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