

Preschool Workshops

These are programs specifically designed for children ages 3, 4 and 5 and take place in daycare centers, preschools or even church basements. They are 30 minutes in length are accompanied by a Teacher Resource Package to further reinforce the topic covered in the class. The children also perform experiments, participate in demonstrations and have a take home item at the end of the program.

LIFE

- ***Animal Friends***
 - Interactive and hands-on activities will assist preschoolers with this introduction to animals. After this workshop children will understand that: Animals make different sounds and noises; Animals have different types of coverings for their bodies such as fur, scales and feathers; Animals look different from the time that they are babies to when they are adults.
- ***Dinosaurs***
 - Investigating the habits, needs and characteristics of dinosaurs facilitates the exploration of the fossilization process. Hands-on activities assist students with their understanding of fossils and dinosaurs.
- ***Fluttering Birds***
 - Children will be excited to learn all about their fine feathered friends when they take an up close look at birds. They will 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. Preschoolers will take home bird warblers to practice their bird songs at home.
- ***Wiggly World of Worms***
 - This workshop will provide preschoolers with an opportunity to get their hands dirty while learning all about worms. They will work with magnifying glasses to get an up close look at the lives and habits of worms.
- ***Human Body***
 - Interactive and hands-on activities will assist preschoolers with this introduction to the human body. After this workshop children will understand that: Bodies are made up of bones called the skeleton; Muscles help people to move; The heart pumps blood through the body bringing food and oxygen to all of the parts of the body.
- ***Healthy Choices***
 - Preschoolers will be introduced to basic nutrition in this hands-on workshop. They will discover what makes a healthy meal and why they need to keep eating fruits and vegetables to grow strong!
- ***Butterflies***
 - Preschoolers discover all about butterflies – where they come from, stages of their growth, how they eat and even make some of their own to take home during this workshop.

OUR SENSES

- ***Taste and Smell***
 - Join us for a journey through your taste buds and sense of smell. This class will introduce preschoolers to their sense of smell and of taste and how they help them to enjoy all of their favorite foods and smells, as well as those that are not as pleasant. Students will create their very own scented pictures to take home.
- ***Listen Closely***
 - Children will understand that: Sounds are made by vibrations; Sound travels through the air in waves; Sound waves can actually move things; We can use our hearing to match like sounds; Some movie sounds are made from ordinary objects; Pitch refers to how high or low a sound is.

EXPLORING SCIENCE

- ***Science of Music***
 - Boom, tap, smack, cha-cha-cha, listen to the sounds and rhythm of the science of music. Children will feel, hear and see the vibrations that help create music in this hands-on exploration.
- ***Mad Mixtures***
 - Interactive and hands-on activities will assist preschoolers with this introduction to mixtures and the science of chemistry. At the end of this workshop children will know that: Chemistry is the science of mixing things together; Chemistry can be used to help mix up different colors.
- ***Shapes and Structures***
 - Children will discover different shapes and structures by using different kinds of equipment like Geoboards and Magnatiles. They will create their own structure to take home using cornstarch based “noodles.”
- ***Color Lab***
 - Interactive and hands-on activities will assist preschoolers with this introduction to color and increase their understanding of color mixing.
- ***How Big? How Much? (aka Let’s Measure)***
 - Preschoolers will learn the basics of measurement during this workshop when they get to measure all kinds of objects using balance beam scales, bathroom scales and even their own feet! Children will be introduced to the concept of estimation and take home a measuring foot to cut out with their parents.
- ***Lights On***
 - Interactive and hands-on activities will assist preschoolers with this introduction to light. The main concepts presented in this workshop are the following: Light helps us to see; If you shine light through different colors the color of the light changes color; Even though light looks white, it is actually made up of all the colors of the rainbow (Red, Orange, Yellow, Green, Blue, Indigo and Violet).
- ***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.

- ***Slime Science***
 - Slime Science provides an entertaining lesson on polymers and their properties. These relatively complex chemistry concepts are introduced to children in tactile, visually engaging experiments. Students create cross-linked polymers based on their observations of the properties of polymers and cross-linking agents. Everyone gets to make his or her own slime to take home!
- ***Dry Ice Capades***
 - Children will understand the concept of matter in its three states through visual and tactile experiences. They will learn both how and why matter changes between the different states. *Dry ice*—the star of the show—used in a series of fun tests, explores the properties of matter at extreme temperatures.

OUR EARTH AND BEYOND

- ***Adventures in Air***
 - Interactive and hands-on activities will assist preschoolers with this introduction to air. The main concepts presented in the workshop are the following: Air is all around us; Air takes up space; Air can move things; Air can slow things down; Hot air rises.
- ***Sea, Sand, & Surf***
 - Children will explore the science of the sea when they learn about what sand is made from, how shells are used by animals for protection and what animals live in the ocean. They will make their own ocean bottle to take home.
- ***Water Works***
 - Water is more complicated than it looks and through this exciting workshop children will learn all about the different properties of water. They will experiment with floating, sinking, absorption and so much more.
- ***Energy and Motion***
 - Children explore the concept of energy and how energy gets things moving in this workshop that uses toys to help explain simple energy ideas. They will take home toys called “Boinks” that will help them remember how energy and motion are related.
- ***Space Frontiers***
 - Take your class on a trip through the solar system and sign them up for the Mad Science Astronaut in training program where they will learn all about the elements of space. Students will even get to take their very own mini rocket home.
- ***Fantastic Fliers***
 - Fantastic Fliers is an ideal combination of practical and theoretical knowledge, and the perfect introduction to the basics of aerodynamics. Students will learn about the four forces which affect a plane in flight: drag, gravity, lift and forward thrust; and they will witness, experience,

play with, and use these forces to their advantage in the construction of incredible paper planes!