



## Kindergarten to Grade 2

**Body Basics** - Study the science of your insides by learning about the major systems of the human body. Learn about 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.

**Dinosaurs** - Examine real fossil casts, and explore the differences in the teeth of herbivorous and carnivorous dinosaurs. Students will participate in a mini dinosaur excavation and make a cast of a dinosaur tooth to take home.

**Magnificent Magnets** - Discover the invisible fields surrounding magnets with our iron fillings. Devise and perform experiments to test magnetic strength.

**Measure for Measure** - Children will have a unique opportunity to learn all about the metric system of measurement and trek through a treasure trail.

**Mission: Nutrition** - Finally, a workshop that teaches how to tell a calorie from a carbohydrate and a fat from a fad in a way that will hold a child's attention and hone their enthusiasm! Burn a marshmallow and use a pedometer to step onto the road to a healthy lifestyle!

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

**Slippery Science** - This class demystifies one of the most beneficial molecules know to humankind...Polymers!

**Sound Basics** - Surf sound waves in this "off beat" class. We will explore how sounds are created and transmitted.

**Taste Buds** - Put on your lab coat and stick out your tongue as you discover the delicious biology behind your taste buds.

**Where's the Air?** - This dynamic class explores the concepts of air pressure and buoyancy through hands-on experimentation and thought-provoking demonstrations.



## Grades 3 - 6

**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.

**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. This workshop will introduce students to the elements of ecosystems. 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.

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

**Good Vibrations** - Investigate the science of sound in this hands-on introduction to the basics of vibration, frequency and pitch. Discover how instruments use vibration to make music and you will be amazed as you hear church bells through your fingers and music through your teeth.

**Invention-ation** - Who gave us Morse code? How about earmuffs or the light bulb? Children will be guided from observation through presentation on their journey to becoming a great inventor.

**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.

**Mineral Mania** - Recreate the process of rock formation and devise ways to identify and classify rocks and minerals. Experience the thrill of panning for gems; the gems you find, you can take home for further study and investigation.

**Photosynthesis** - This workshop provides students with an introduction to photosynthesis, including an understanding of the chemical processes at work in the plant, plant respiration, and the role of plants in food webs.

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

**Science of Art** - Find that fine line where physics and creativity merge to create a masterpiece

**Science of Sports** - Find out how much air is in an athlete's lungs (or yours!) and how your senses work together to let you kick a soccer ball.

**Turn Up the Volume** - Students will be introduced to the scientific process involved in the measurement of volume through a series of activities and experiments.