

2015 COURSES

The courses allow children with exceptional intellectual ability to extend their existing fund of knowledge through first-hand experimentation and creative experiences.

4 years old or entering K LOVELY LEPS



Watch the life cycle of butterflies! Hatch a chrysalis in our own vivarium and watch it metamorphose into a beautiful butterfly. Learn how to distinguish butterflies from moths. Discover attributes of the Swallowtails, Monarchs, Buckeyes, Painted Ladies and other Lepidopterans. Explore the beautiful bi-lateral symmetry and patterns of these "scaly-winged leps." Identify butterfly body parts and their functions. Create butterfly mobiles and other artistic replicas. What makes a butterfly a conservationist? How are they important for our ecosystem? Make butterfly nets and join us on a butterfly hunt!

Entering K or 1st grade INTRICATE ICE



What is frozen H_2O ? What is dry ice? Observe the beautiful crystal shapes formed in ice. Learn how to use a thermometer. Make "blubber gloves" to keep your hands warm as you experiment with expansion and contraction; chemicals and melting points; temperature and insulation. Find out how the Inuit stay snug in igloos and how animals adapt for an icy environment. What was the Ice Age? How was our world different than today? Use math, music, literature and science to hypothesize, observe, collect data, analyze and draw conclusions about this natural phenomenon, intricate ice!

Entering 1st or 2nd grades HUMANLY HEALTHY



"AHHH....CHOO!" Ever wondered what causes a sneeze? A cold? Why does your heart beat faster after a run? What happens if you don't brush your teeth? How do you know to put your hands out for a ball coming to you? The human YOU is an amazing mystery just waiting to be discovered. Observe how the brain reacts to the world around us. Construct human bones to learn how you move, play and grow. Observe how blood flows through the circulatory system when we simulate heartbeats. Put your heart to the test by taking a run to explore heart rate. Discover how the nose works and why boogers are important. Create life-like snot to learn how the immune system fights off germs. Put on your running shoes, open your eyes, and get ready to get your hands dirty as we explore what makes you human!

Entering 2nd or 3rd grades SENSATIONAL SENSES



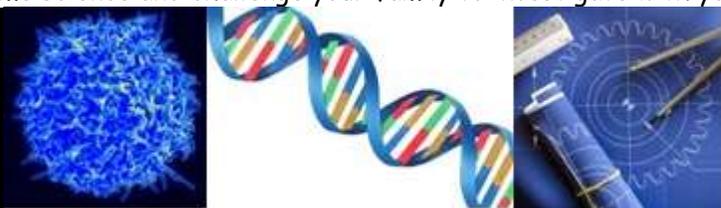
Can you name the organs in our bodies which allow us to explore the world in which we live? Join us as we construct models of the different sensory organs and examine how each receives information. Conduct experiments to see what it is like to live without one of the senses by going on a blindfolded walk, learning Braille, exploring nature without sound, and trying to guess mystery objects when the sense of touch is obscured. Is the human eye the most complex organ in our bodies? Learn about the anatomy of the eye and how it allows us to see objects and colors. Participate in a taste test to learn about the different receptors that taste salty, sweet, sour, bitter and savory. Explore how all of the sensory organs work together to provide us with sensational senses!

Entering 3rd or 4th grades FORENSICS FRENZY



Do you have what it takes to solve a mystery? Are you interested in using science to help analyze evidence from the scene of a crime? Use microscopes to help you sort through forensic evidence. Learn how teeth impressions and bones can unlock the clues needed to find a suspect. Practice fingerprint dusting, run chemical tests to rule out suspects, analyze hair samples and much more! Spend the day in the life of an FBI agent and a Forensic Anthropologist. Celebrate all that you have learned on Friday with a mock crime science and challenge your family to investigate with you!

Entering 4th or 5th grades DAZZLING DNA



What makes you so...YOU?! There isn't another person in the world who is exactly like you. Even though we're all made up of cells, one component in our cells is unique--our DNA. How does our DNA determine which color eyes we have or whether or not we can taste certain chemicals? It all comes down to our genes. Did you ever wonder why Labradoodles and Ligers have unique characteristics? Uncover the mystery of our own DNA blueprint! Experiment with ways to extract DNA and determine how to predict different traits in all living things. Join us to learn about DNA and how it makes life so dazzling.