PreK-K

ICKY, STICKY, AND FUN
Have you ever wondered what makes your pancakes fluffy? There are messes to be made and things to explore. Only the most curious minds are needed in this laboratory. Come to this class and become the world’s most creative chemist or inventor of the gooiest gunk ever glopped!

MY BACKYARD: A MUSICAL EXPLORATION OF LIFE IN THE BACKYARD
Work as scientists, authors, artists, and performers to understand the creatures you see every day in your backyard. Research the habits and habitats of the hummingbird, pillbug, ladybug, butterfly, snail, and firefly. Sing short songs reinforcing what you have learned. Finally, participate in a musical play and awards ceremony that has everything to do with your backyard!

VISUAL MATH
Explore math through the senses as we work with shapes and bubbles, nature, flying discs, spaghetti puzzles, fractionated cookies, and more. Who know math could be this fun?

Grades 1-2

KITCHEN CHEMISTRY
Your kitchen is one big chemistry lab! Explore colors, solids, liquids, gases, polymers, chemical reactions, mixtures, solutions, and more. Use your new kitchen chemistry knowledge to create snacks that go along with the lesson of the day. Learn how chemistry is alive in your own home! (Supply Fee: $5)

TO THE RESCUE: ENGINEERING AID DROP PACKAGES
Packages are all around us in the form of boxes, envelopes, and medicine bottles. Package engineering involves the design, development, and production of packages. Think about how to properly protect package supplies and deliver humanitarian aid drops to the people who need help. Join the adventure with the brother and sister duo Indian and Jacob!

ANCIENT CIVILIZATIONS
Put on your traveling shoes and join us as we explore Egypt, Greece, and other countries home to ancient civilizations. Explore mysteries of the ancient world! Why did the Egyptians use animals and pictures in their language? In ancient Olympia, what are the myths they create to explain things? What are some of the ancient Chinese practices that are still taking place today? Come and learn more amazing facts about pyramids, hieroglyphics, Greek mythology, and other ancient cultural traditions and beliefs.
THE WORLD OF DATA AND GRAPHS
Explore the world of the research scientist and learn how gathering, representing, and analyzing data are the essence of good research. Students will learn why and how we use data to seek the answers to research questions. Working as a class, students will then learn to create various types of graphs to represent the data and accurately present the research results.

Grades 3-4

MINI MED
We are looking for talented future doctors. Explore the world of medicine to understand what it takes as we dissect various specimens. Learn about human anatomy, physiology, immunology, microbiology, systems of disease, and more. (Supply Fee $10)

BOTANICAL INVESTIGATOR
Imagine a world where humans were cemented to the ground. How would you get water or food? Does survival seem implausible? Now consider the world of botany. In this course, we will explore about the fascinating biology of plants and learn how it is integral to life on this planet.

HOUSE DESIGN
From mansions to townhouses, architecture is in the works! Students build an understanding of the problems and pleasures of designing a house by learning the different types and necessary elements of house design, the correlation between income and mortgage eligibility, and the costs of house construction and home furnishings. Some of the activities include evaluating the pros and cons of building single-family homes, calculating the number of square feet in a given area, and designing and drawing specific floor plans.

GO GREEN!
When an engineer is solving a problem using green engineering, it means that he or she is thinking about how to solve the problem in a way that prevents harm to the environment. Green engineering is a way of thinking that can be applied to any engineering problem. Students will learn about green engineering and the recycling culture in Senegal. They will use recycled materials to engineer their own toy cars, and compete in a Recycled Racer Rally. Recycling and reusing has never been this fun!

“WATER” YOU IN FOR?
What is lurking in the water? Through experimentation and observations, students investigate stream habitats, water pollution and ph levels, as well as conduct group problem-solving sessions to learn more about the streams’ natural ecosystem. Using insects as indictors, students judge the “health” of a stream and learn how alterations to the stream ecosystems affect the water quality.
Grades 5-8

RUBE GOLDBERGINEERING
Have you ever seen a Rube Goldberg design? Come join a design team to brainstorm and build creative contraptions to solve everyday problems in a complex way like how to use a hammer, a pulley, and twelve rubber bands to put toothpaste on a toothbrush. Use hands-on activities to focus on science, technology, and engineering concepts!

I CAN BE AN ENTREPRENEUR
What does an entrepreneur do? Find out by being a manager of a new company! You will go through the steps of investigating market opportunities, develop ideas, work in project groups, do market research, and present your ideas at a board meeting. If you have an idea, come and join the class to make your dream a reality.

THE WORLD OF OPTICS
Discover the world of optics with the help of an optical engineer! In this class, we will explore different aspects of light, such as frequency, wavelength, the electromagnetic spectrum, reflection, refraction, and diffraction. Do you want to make your own telescope or a pinhole camera? Come and join the class to experience the wonderful world of optics!

FUN WITH PROGRAMMING
Do you want to learn a programming language like those used to create computer games? Do you want to design your own computer game? Join the class and you will learn a computer language that will enable you to design programs to solve simple programs and maybe create a game or two.

“CAN YOU HEAR ME NOW?” Creative Writing across the Arts
Do you like ART? Drawing, painting, dance, cinema, music, reading, writing? We will be exploring each of these art forms, and responding with our own creative compositions. Come ready to use your imagination and record your ideas in a wiring journal. Who knows what discoveries our art exploration will bring!