



Edge Academy Exploration Labs - 4th Grade

At Edge Academy you'll have the opportunity to be in different Exploration Labs. Exploration Labs will take place in the morning while both Mrs. Sheffield and Mrs. Wade are here and will last 90 minutes (1 hour and 30 minutes) - so you'll have plenty of time to work. Each teacher will lead a different lab. We will offer the Labs that have the most student interest.

Please read through the choices below and mark your level of interest in each lab:

★ = Very Interested

✓ = Might Like It

○ = Not Interested

_____ **Shake, Rattle, & Roll:** Do you love music? Do you drum on the tabletop or sing in the car? We will explore the music of different cultures, create our own instruments and record our own sounds and mix tracks!

_____ **Find Your Superhero:** Do you have a superhero, or perhaps a super villain, lurking within? Learn about the history of superheroes by examining the mythology of Greek, Roman, Egyptian, and other global cultures. Develop your own superhero character(s) with backstories, strengths and weaknesses, and costumes.

_____ **Astronomy, Flight & Rockets:** Are you interested in outer space and flight? In this class we will learn about our atmosphere and our solar system, as well as principles of flight and rocketry. We will make model kites, planes, and rockets and go outside to test launch as weather permits.

_____ **Computer Coding:** Are you interested in learning how to program computers to create your own games and animations? Learn the basics of coding using Scratch programming, Code.org, Khan Academy, and other online coding apps, as well as work with Edge's Sphero robots.

_____ **Machine Dissection:** We all use technology almost everyday - but how does it work? Do you like to take things apart to see what's inside to better understand how they work? If you've always wondered what's going on inside computers, printers, and other machines then this is the class for you!

_____ **Inventor's Workshop:** Do you like to invent and build things? Explore the Design Thinking and Engineering process as you design and build in the Inventor's Workshop. Create prototypes of new inventions to solve problems and meet the needs of different clients, as well as help create a complex Rube Goldberg machine!



_____ **Microworlds:** Explore the inner world of living things as you dive into the exciting world of biology! Learn about plant and animal cells, microorganisms, what lives in our water, and the different systems that make up living things. Create a fiber art piece based on the beauty of your favorite microscopic image.

Edge Academy Exploration Labs - 5th Grade

At Edge Academy you'll have the opportunity to be in different Exploration Labs. Exploration Labs will take place in the morning while both Mrs. Sheffield and Mrs. Wade are here and will last 90 minutes (1 hour and 30 minutes) - so you'll have plenty of time to work. Each teacher will lead a different lab. We will offer the Labs that have the most student interest.

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_____ **Author's Workshop:** Do you dream of becoming a published author? Here's your chance! You will learn how to write and design a professional-quality children's book - complete with its own ISBN number - that will be available for sale online once it is complete. You will receive your own copy to autograph and share with your family and friends.

_____ **Bridge Building:** Are you interested in the architecture of bridges? This lab combines design, physics, and math as you learn how to design and build functioning bridges. You will build a final bridge project which must cross an 8" span and then we'll test it to see how much weight it can support in the ultimate bridge-breaking competition!

_____ **Computer Coding:** Are you interested in learning how to program computers to create your own games and animations? Learn the basics of coding using Scratch programming, Code.org, Khan Academy, and other online coding apps, as well as work with Edge's Sphero robots.



_____ **Inventor's Workshop:** Do you like to invent and build things? Explore the Design Thinking and Engineering process as you design and build in the Inventor's Workshop. Create prototypes of new inventions to solve problems and meet the needs of different clients, as well as help create a complex Rube Goldberg machine!

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_____ **Movie-Making:** Have you always wanted to be in the movie business? Here's your chance to learn how to develop a storyboard, choose camera shots, and produce simple live-action and stop-motion movies to premiere your story to the world.

_____ **Astronomy, Flight & Rockets:** Are you interested in outer space and flight? In this class we will learn about our atmosphere and our solar system, as well as principles of flight and rocketry. We will make model kites, planes, and rockets and go outside to test launch as weather permits.

_____ **Dream Weavers:** Have you ever wondered how people made cloth back in the old days before everything came from a factory? Not everyone was a caveman wearing an animal skin!?! Learn about different types of natural fibers and how they can be woven into cloth to make things. Learn how to craft an original woven creation that you can actually use, such as a mini-messenger bag, a Native American medicine bag, or a Scottish sporran. (which is a....? Hint: you need one for your kilt.)