

Course Descriptions for Mighty Roots Academy Programs 2024-2025



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Homeschool Academy Course Descriptions

Homeschool Academy: 9:35-11:35 2 Hour Block

Required for K-1st Graders, Recommended for 2nd Graders

Nature Explorations

Ages: 5 - 8

Students will explore the world around them guided by their interests. Each interest area will typically be explored for a few weeks through readings and then hands-on exploration in centers that encompass and draw on building basic skills through math, science, nature, language, play, and art, with an emphasis on developing fine motor skills. Students will also engage in ongoing projects, such as journaling, that demonstrate yearly growth and progress. Students will enjoy read-alouds, shared reading, build foundational principles in reading, and practicing handwriting. A key focus will be on literacy with specific study time using an Orton-Gillingham approach (All About Reading).

This course is required for kindergarten and 1st grade students. 2nd grade students are encouraged to join as well, as specified literacy lessons will assist all students to work on their grade-appropriate academic goals.

Additional Materials: raincoat, rain boots, snow pants, snow boots & waterproof gloves.

Homeschool Academy: 9:35-10:35 Block

Creators and Innovators

Ages: 7 - 12

In this cross-curricular course, students will explore inventors throughout history, the problems they were trying to solve, and their groundbreaking inventions that reshaped our world. Students will develop their own problem-solving abilities and innovative thinking, as well as work on creations of their own. Projects in this course will build on reading and writing skills while engaging students in STEM-based challenges.

Art Middle – Art Through the Ages

Ages: 9 - 13

This hands-on, project-based course will take your young artists on a journey through the progression of art history across the centuries, starting with ancient civilizations, the classical world, and the Middle Ages. They will explore topics such as cave drawings, Ancient Egypt, mythology, and architecture. We will visit each consecutive art period, learning about the Renaissance, Impressionism, Post-Impressionism, Cubism, Surrealism, and Pop Art. We will end the year by exploring art in Contemporary Times. This course will heavily feature artist studies and students will explore a variety of art mediums and processes, including drawing, painting, collage, printmaking, sculpture, and ceramics.

Homeschool Academy: 9:35-10:35 Block (continued)

Rome to the Middle Ages

Ages: 11+

Join us on a journey across time, from Caesar Augustus to Leonardo DaVinci. We'll explore the Roman Empire through the Middle Ages in this project-based class, focusing on the connections between art, literature, science, and the historical figures of the time. Group work and opportunities for individual exploration will be utilized.

Composition for the Real World

Ages: 13+

This course will help students take their composition writing to the next level by learning how to write dynamically within different formats. Through endeavors like a teen zine/newspaper, debate and discussion, and methods to develop their own voice, students' writing will become more engaging and effective. Students will put into practice: newswriting and reporting, formal letter/email writing, citations, persuasive and analytical essays, thank you letters, and movie/book reviews. Using editing, critical thinking, and constructive feedback, the class will work both together and individually to refine their work.

Eligible for Single Course Enrollment with approval.

Homeschool Academy: 10:35-11:35 Block

Reading, Writing, and Storytelling

Ages: 7-10

Students will bring their imaginations to life through the exploration of classic and contemporary literature, as well as Structured Literacy readers. We will develop reading skills through proven Structured Literacy techniques, explore grammar and spelling, and build artistic abilities through stories, games, and art!

Reading level: Developing readers who have mastered the alphabet but are not yet able to read chapter books independently.

Reading level: [Developing readers who are not yet able to read stories independently.](#)

Literature Adventures: Book VS Movie

Ages: 8 – 13

Welcome to an exciting journey where literature comes alive through the magic of movies! In this course, we will dive into the realm of storytelling through both books and movies. Through lively discussions, creative activities, and critical analysis, students will explore the fascinating relationship between literature and film. This course will focus on specific literary works and their corresponding film adaptations. Students will learn how filmmakers interpret and translate literary works into visual mediums. They'll uncover the creative choices made in the film adaptation, discussing what elements remain faithful to the original text and what artistic liberties were taken.

Reading level: [Independent readers of chapter books.](#) [Additional Materials: Students will provide their own copy of each book studied. Most are available through the library.](#)

Mythology

Ages: 11+

This course will explore the dramatic worlds of different classic mythologies in an interactive way. The focus will be on Norse, Greek and Roman myths, but we will also study stories from African, Japanese, and Native American mythology. Students will learn about common themes like fate and revenge, and use pop culture resources to discover how mythology is relevant in the present day. Students will explore mythical creatures with a scientific eye, create their own character in a role-playing story and study constellations. Other interactive group and individual projects will include board game creation, table-readings, food tastings, mini Olympic events and an independent study project.

Visual Arts for Middle and High School

Ages: 12+

Students in this course, designed for high schoolers and advanced middle schoolers, will be introduced to the fundamental skills, concepts, materials, and processes of the visual arts, with an emphasis on contemporary art. Technique studies and studio experiences will challenge students to develop technical skills in a variety of mediums, including drawing, painting, mixed media, ceramics, and fibers. Students will be expected to produce at least two meaningful, original artworks and students ages 13+ may choose to enter an original artwork into a national art competition.

Eligible for Single Course Enrollment with approval.

Homeschool Academy: 12:35-1:35 Block

Nature Science

Ages: 5 - 8

In this hands-on, nature-based science class, students will learn all about the science of nature around them. We will explore science topics and do experiments through lessons and an experiment journal.

Proper outdoor gear will be required for this class as we will spend a great deal of time outdoors. This includes: rainboots, snow boots, rain pants, raincoats, snow pants, waterproof gloves and hats.

Math and Learning Games

Ages: 5 – 8

Board games, card games, movement games, and more - we'll explore them all in this fun course designed to build literacy and numeracy skills. Group collaboration and opportunities for solo work will allow each student to start at their current skill level and grow.

Geology

Ages: 8 – 12

Delve into the fascinating world beneath our feet! In this exciting class, students will learn about geology with hands-on experiments, engaging discussions, and immersive activities. Key topics will include: the rock cycle, plate tectonics, minerals and gemstones, fossils, landforms, and erosion.

I Survived... Historical Events from a Kid's Perspective *Ages: 7 – 12*

Let's weave through history using the *I Survived* Book Series! Each *I Survived* book tells the story of a thrilling historical event from the point of view of a child. Throughout the year, we'll use class time to read several books in the *I Survived* series. After each book, students will do group and individual projects that expand their knowledge of history. They will also study world geography by creating an "I Survived" map, answer scientific questions (through experiments when suitable) about subjects like sharks and volcanoes, and play group movement games custom-themed to each book.

Homeschool Academy: 12:35-1:35 Block (continued)

Videography

Ages: 13+

Unlock the creative potential of your camera phone and enter into the world of mobile videography! This course will equip students with the essential skills and techniques to produce exciting videos - using nothing more than their mobile devices. Throughout the course, students will learn the fundamentals of videography, including composition,

framing, lighting, and storytelling. They will explore various filming techniques, such as establishing frames, close-ups, and action sequences, while also experimenting with different angles and perspectives to enhance visual storytelling. Students will learn about mobile editing tools, discovering how to trim clips, add transitions, and incorporate music and sound effects to elevate their videos. They'll also explore the art of narrative structure and pacing, learning how to craft engaging and captivating stories.

Eligible for Single Course Enrollment with approval.

Additional Materials: Students will need to provide their own smartphone and/or tablet. iPhone and iPads are preferred. (*Preferably models that are no older than 5 years*)

High School Physics

Ages: 13+

This course will provide the high school student with an introduction to classical mechanics, electromagnetism, sound, and more. Through instruction and labs, students will explore how physics explains why things work the way they do. Students should have taken high school algebra and have a basic understanding of scientific notation. This course may require the use of a simple scientific calculator.

Eligible for Single Course Enrollment with approval.

Homeschool Academy: 1:35-2:35 Block

Inspiration Station for Young Artists

Ages: 5 – 8

Students will explore the wonderful world of art through experimental and unique art processes. The students will explore and experiment with different forms of art mediums. Students will also learn about famous artists through open-ended exploration, books, and lessons.

Sensory Science

Ages: 5 – 9

Taste, touch, sight, smell, sound! Students will explore the natural wonders of the world around us through hands-on projects, literature, and experiments. Scientific observations will be logged in science journals, developing literacy skills, math skills, and more. **Students may take this course for up to 3 years, as topics rotate.**

Art Jr. - Art Through the

Ages

Ages: 7 – 10

This hands-on, project-based course will take your young artists on a journey through the progression of art history across the centuries, starting with ancient civilizations, the classical world, and the Middle Ages, exploring topics such as cave drawings, prehistoric animals, mythology, and architecture. We will visit each consecutive art period, learning about the Renaissance, Impressionism, Post-Impressionism, Cubism, Surrealism, and Pop Art. We will end the year by exploring art in Contemporary Times. This course will heavily feature artist studies and students will explore a variety of art mediums and processes, including drawing, painting, collage, sculpture, and ceramics.

Elementary Math Games 3rd –5th Grade Levels *Ages: 7 – 10*

We will bring math off the page and to life through challenging games and activities. Students will solve problems practically, through active learning, and with friends of different ages and interests. Multi-level activities will meet each student at their math level while challenging them to master new math skills in fun ways. **Target skill range 3rd-5th grade. Students need to have a mastery of addition and subtraction to 20 and be familiar with addition and subtraction with borrowing and carrying to take this course.**

Homeschool Academy: 1:35-2:35 Block (continued)

Life Skills Math for 6th-8th Grade Levels

Ages: 10 – 15

Using real world situations and activities, math will come alive through games and problem-solving. Multi-level activities will meet each student at their math level while challenging them to master new math skills that are essential to everyday life in fun and practical ways. Students will be provided with opportunities to apply mathematical operations and develop problem-solving in real-life situations. **Target skill range 6th – 8th grade. Students need to have a mastery of addition, subtraction, multiplication and division to take this course.**

Mythology

Ages: 11+

This course will dive into the dramatic worlds of different classic mythologies in an interactive way. The main focus will be on Norse, Greek and Roman myths, but we will also study stories from African, Japanese, and Native American mythology. Students will learn about common themes like fate and revenge, and use pop culture resources to discover how mythology is relevant in the present day. Students will explore mythical creatures with a scientific eye, create their own character in a role-playing story and study constellations. Other interactive group and individual projects will include board game creation, table-readings, food tastings, mini Olympic events and an independent study project.

High School Math Lab

Ages: 13+

Students will bring in their math coursework from their home studies and use this course to work together with other students on their math as well as receive guidance from the Learning Guide. Students will work from their current level and curriculum in Pre-Algebra, Algebra 1, or Algebra 2 textbooks. Students are not allowed to switch levels without the advisement of the learning guide. Students must also have completed the level they are currently on before it before advancing. *(For example, must complete pre-algebra before algebra 1, and must complete algebra 1 before algebra 2.)* Students may come in with questions from their coursework or concepts from their math courses that need clarification. We will work together one on one or as a team to solve problems.

Eligible for Single Course Enrollment with approval.

Additional Materials: Students will provide and use the appropriate level of Teaching Textbooks. Other curriculum may be used if approved by the Learning Guide in advance.

Creative Options Course Descriptions

Creative Options: 9:35 – 11:35 2 Hour Block

Musical Theater

Ages: 8+

Experienced theater students will be working on a showcase in the fall and a musical, ***The Music Man Jr.***, in the spring. Students will receive direction in acting, singing, and choreography. In the fall, students will select a song or scene from a show of their

choosing, with approval from the director, and work with other students to perform. Before the winter break, students will audition for The Music Man Jr. and be given a role. In the spring, all classes are focused on the musical and performances will be towards the end of the year. Students who select this two-hour option should be prepared to spend class time focused on blocking, choreography, vocal work and skill development. This will require students to complete line memorization, and practice choreography, blocking, and vocals weekly at home. Actor's Studio students may audition for midsized and small roles, while Musical Theater students may audition for main and large roles.

Additional information:

- Students provide their own costumes.
- Dress rehearsal and a few additional practice times will be scheduled.
- Families choose to pay a **\$50 course fee** or **volunteer 5-10 hours** to make the shows possible such as show prep, equipment set-up, break-down, backstage assistants, etc. Course fee or volunteering selection made at enrollment.

Creative Options: 9:35 – 10:35 Block

Young Performers

Ages: 5 – 9

This is a great course for young students to explore their comfort on the stage as they learn theater basics in a fun and exciting way. The fundamentals of performance and musical theater will be taught in gentle, fun ways – helping students to break out of their shell and build confidence in front of others. A short performance will take place in the

spring, opening up for the Musical Theater show *The Music Man Jr.*. **Parents must provide the student's costume.**

Nature Art

Ages: 5 – 8

Students will explore the wonderful world of art while using items found in nature as a basis of their art. Students will explore with leaves as painting tools, use sticks and branches to create 3D art, and so much more. The possibilities are endless!

Makers Elementary Studio Art

Ages: 7 – 11

Elementary Art Makers will begin the year exploring art making via cross-curricular animal and environment-themed art instruction. Students will work on developing strong drawing and compositional skills while exploring their abilities and growing their artistic confidence. Students will be expected to participate in group activities that explore foundational techniques and mediums in studios such as drawing, collage, painting, printmaking, fibers, architecture, ceramics, and sculpture. As the year progresses, students will be afforded more open studio class time and work as a real artist would! Students will be challenged to find inspiration, develop their own ideas, design their own projects, creatively solve problems, and reflect on their artistic processes. This course is perfect for beginning artists new to Studio Art and those still developing fine motor skills!

Tabletop Group Games

Ages: 8+

In this course, students will be invited to participate in playing various games that have been thoughtfully chosen by the Learning Guide. The year will be divided into units, each being six weeks. Units covered will include: Storytelling & Role Playing; Math; Strategy & Logic; Cooperative; Student Picks. Students must be open to having fun and willing to participate in pairs and in groups. No prior experience is necessary, part of the class will be going over the rules of a game. Students will benefit from working collaboratively, they will strengthen communication skills, and will hone decision making and analytical skills.

Creative Options: 9:35 – 10:35 Block (continued)

Robotics

Ages: 8 – 13

Students will experience basic coding and will work together to program robots to perform various tasks from working through a maze, to pushing objects around a level field, and more! Students will also learn more about the robotic industry and the use of robots in the world around them. As they progress through the course, students will develop problem-solving skills, critical thinking abilities, and teamwork as they collaborate with peers to tackle challenges.

Personal Finance

Ages: 13+

This dynamic and comprehensive course is designed to empower students ages 13+ with the essential knowledge and skills to navigate the intricacies of personal finance confidently. In this course, students will embark on a transformative journey towards financial literacy, equipping themselves with the tools necessary to make informed decisions and secure their financial futures. From budgeting and saving, to investing and debt management, each session will provide practical insights and actionable strategies tailored to the needs and interests of the students. As part of our commitment to holistic education, this course also addresses the emotional and psychological aspects of money management. Students will learn about the psychology of money, risk tolerance, and the impact of attitudes and beliefs on financial behavior, enabling them to develop a healthy mindset towards money and wealth.

Creative Options: 10:35 – 11:35 Block

Actor's Studio

Ages: 8+

New to theater students, those wanting smaller roles, and younger students will be working on foundational skills of acting, singing, and dancing. Students will have the fall semester to develop those skills and prepare for auditions to perform in our spring musical, ***The Music Man Jr.***, in conjunction with the Musical Theater class. All students are given a role! Actor's Studio students may audition for midsized and small roles, while

Musical Theater students may audition for main and large roles. In the spring, all classes are focused on the musical and performances will be towards the end of the year.

Additional information:

- Students provide their own costumes.
- Dress rehearsal and a few additional practice times will be scheduled.
- Families choose to pay a **\$50 course fee** or **volunteer 5-10 hours** to make the shows possible such as show prep, equipment set-up, break-down, backstage assistants, etc. Course fee or volunteering selection made at enrollment.

Lego Science

Ages: 5 – 8

STEAM concepts will be brought to life using the perennial favorite, LEGOs! Students will be presented with challenges that encourage them to explore multiple ways to solve problems, all while using the engineering design process. In this team-based course, students will learn to troubleshoot, modify plans, and create strategically.

Culinary Story Adventures

Ages: 5 – 9

Students will develop a love of reading, storytelling and cooking in this hands-on cooking class. In this class we will read a new storybook bi-weekly. Students will then participate in a hands-on activity that corresponds to the story that is read. The following week, we create a culinary creation based off of the book. We will learn basic kitchen and cooking safety, as well as create an on-going recipe book throughout the year. **Note about food allergies: Students with food allergies are welcome, but parents must supply appropriate alternative food items for their student.**

Creative Options: 10:35 – 11:35 Block (continued)

Burrows, Caves, Nests, and Animal Games

Ages: 5 – 9

In this course, students will observe and study the varying shelters of the animal world and will then be invited to build their own! During this course, students may be invited to use the following materials with which to build: sheets/blankets/pillows; cardboard boxes; limbs/sticks/leaves/debris; plasticine; dirt/mud. Students will also be guided through physically active outdoor games in which they become the animals. These games will strengthen agility and deepen sensory awareness while also providing some “breathing out” time. Students will strengthen problem solving skills through independent and cooperative play.

Gardening

Ages: 8+

Welcome to the enchanting world of gardening in the heart of nature! Gardening class offers a unique opportunity for children aged 8+ to immerse themselves in the wonders of horticulture. Throughout this course, students will embark on a journey of discovery, learning about the intricate relationships between plants, microorganisms, and the environment. Students will cultivate not only the MRA garden, but also a deep appreciation for the natural world. This hands-on class will cover a variety of topics: planting and propagation, garden design, soil science, and our connection to nature.

Team Challenges

Ages: 9+

Students will engage in activities that foster teamwork, critical thinking, communication, and leadership skills. Students will tackle a variety of challenges that require creative problem-solving, strategic planning, and effective collaboration. From building structures with limited resources to solving puzzles and navigating obstacle courses, each challenge will present opportunities for students to work together, think outside the box, and overcome obstacles as a team. Students will have the opportunity to analyze their experiences, identify areas for improvement, and celebrate their achievements. The goal is to emerge from the course with a deeper appreciation for the power of teamwork, and to have a toolkit of valuable skills that can be applied in various personal, academic, and professional contexts.

Creative Options: 10:35 – 11:35 Block (continued)

Advanced Studio Art

Ages: 12+

The focus of this studio-based class, designed for advanced middle and high school artists, is learning artistic behaviors, in other words, how artists think and work. Students will have access to drawing, collage, painting, printmaking, fibers, sculpture, and ceramics materials and will go through the same process that working artists do (inspiration, design, creation, and reflection). As a class, students will work through several Artistic Behavior Units that answer the question “What Do Artists Do?,” such as “Artists Understand Proportion” or “Artists Take a Stand.” Units will provide opportunities for mini lessons on specific art mediums and techniques, skill builders, contemporary artist studies, creative thinking and problem solving, critique and reflection, as well as the creation of original and meaningful art.

Creative Options: 12:35 – 2:35 2 Hour Block

Forest School

Ages: 5 - 7

Students will enjoy the beauty of nature while learning! This outdoors-designed learning time will explore the wonderful 5-acres that Mighty Roots Academy has to offer. Along with highlighting natural learning opportunities through adventuring and playing, forest schoolers will have two to three teacher-prepared *Learning Times* each program day. These lessons will inspire interest in academics without formal pressure.

Additional Materials: Raincoat, rain boots, snow pants, snow boots & waterproof gloves.

Junior Coyotes Earth Living Skills

Ages: 9+

In this nature-based course students will be guided to connect with the land through various lessons, activities and games that will be primarily based on the teachings of Grandfather Stalking Wolf (an Apache scout and tracker born in Northern Mexico in the 1870s) and Tom Brown, Jr. Some topics in this course may include: fire building and fire by friction; tracking; stalking; shelter building; wild foraging; slow functional arts (e.g.,

burn bowls, wild clay bowls and pit firing, broom making, and weaving). **This course will be outside. Students must be prepared for all weather.**

Creative Options: 12:35 – 1:35 Block

Body and Movement

Ages: 5 – 8

This course will focus on body movement and coordination of body parts through practices like breathing, somatic exercises, sensory strength, and more. Fun games such as *Simon Says*, *Awarenesses*, and songs like *Head, Shoulders, Knees & Toes* will be used weekly to reinforce our brain/body connection. Students will have fun and come away with a better understanding of their proprioceptive sense, gross and fine motor skills, and how their bodies can move.

Handicrafts!

Ages: 9+

Students will explore the art of making beautiful, decorative, and useful objects by hand. Guided by student interest, skills learned may include: wet felting, yarn painting, jewelry making, crochet, hand building with clay, salve making, beading, paper mâché, basket making, weaving, paper making, and/or bookbinding, etc.

Lego Science

Ages: 8 – 12

STEAM concepts will be brought to life using the perennial favorite, LEGOs! Students will be presented with challenges that encourage them to explore multiple ways to solve problems, all while using the engineering design process. In this team-based course, students will learn to troubleshoot, modify plans, and create strategically.

Creative Options: 12:35 – 1:35 Block (continued)

Phone Photography

Ages: 11+

Throughout this course, students will discover the full potential of their smartphone camera and will learn the fundamental principles of photography, including composition, framing, perspective, and exposure. They'll discover how to harness natural light, experiment with shadows and reflections, and use creative techniques to add depth and visual interest to their photos. Students will have the opportunity to participate in photography assignments and creative projects that will also cover reading and writing as well. Personalized feedback and guidance from the learning guide will be given to help students refine their skills and achieve their photographic goals.

Additional Materials: Students will need to provide their own smartphone and/or tablet. iPhone and iPads are preferred. (Preferably models that are no older than 5 years.)

The Science of Happiness

Ages: 13+

In this course, students will explore how to live their best lives. They will identify their strengths and unique aspirations, while learning the science behind mental, physical,

and relational health. Students will engage in projects, activities, and discussions that will cover life-mapping, personality typing, psychology, communication skills, and more. Students will be challenged to think deeply while having fun...and in the process, gain tools they'll use for the rest of their lives.

Creative Options: 1:35 – 2:35 Block

Mad Scientist

Ages 7 – 11

Students will observe and explore the wonders of the world around us through experiments, projects, literature, games and more! We will ask questions, test hypotheses, and work together to understand the natural world. **Students may take this course multiple years, as topics rotate.**

Spies, Sleuths and Ciphers

Ages: 8 – 13

Students will explore code-breaking, the secrets of escape rooms, and the world of espionage. Through challenging games, students will engage their teamwork and problem-solving abilities. They will grow their concentration as they solve tricky puzzles, learn about history's greatest spies, and crack ciphers together.

Open Art Studio

Ages: 8+

Artmakers in this course will experience the open art studio and work like a real artist! Students will have access to centers in drawing, collage, painting, printmaking, fibers, sculpture, and ceramics. The beginning of the year will focus on Studio Habits of Mind and process-based Art Explorations, which includes learning how to use and care for each studio and the materials in them. Course instruction will be guided by student interests and include demonstrations, technique exercises, artist studies, ideation, and themed challenges. Artmaking in open studio time will reveal the true product in this course: students who learn to explore various art techniques, find inspiration, develop original ideas, think critically, solve problems, explore concepts important to them, and reflect on their process.

Cheer and Dance

Ages: 9+

Go, Fight, Win! Students will learn how to cheer for the Kansas City Chiefs by focusing on cheer techniques, learning cheer chants, “half time” routines, and basic stunting. Students will be physically active while cheering and will learn to cheer loudly! Students should be prepared to jump, run, balance, and lift in class.

Creative Options: 1:35 – 2:35 Block (continued)

Automotive Shop

Ages: 13+

In this course, students will learn the basics of automotive maintenance. We'll learn things like how to change a tire, what are the different fluids under the hood, and how and when to fill them up. We will learn about changing the oil, the air filter and any other basic things that keep a car running well. Students will come away with a better understanding of the cars they get in and out of every day. This class will meet outside as long as temperatures are above 25 degrees, but will be under covering if it is raining or snowing. Students need to be prepared daily with appropriate clothing for getting dirty and varied weather conditions. **Safety is very important with this course, therefore if students are not listening well or following safety instructions, they will not be allowed to continue with the class.**

Discovery Days
Course Descriptions
9:30 a.m. – 12:30 p.m.

Forest School

Ages 4 – 7

Students will enjoy the beauty of nature while learning! This outdoors-designed learning time will explore the wonderful 5-acres that Mighty Roots Academy has to offer. Along with highlighting natural learning opportunities through adventuring and playing, forest schoolers will have two to three teacher-prepared *Learning Times* each program day. These lessons will inspire interest in academics without formal pressure.

Additional Materials: Rain coat, rain boots, snow pants, snow boots & waterproof gloves.

Explorer's Club

Ages 7 – 11

Students will receive a great opportunity to dive deep into nature themed unit studies! By using STEM projects, poetry, nature journaling, group projects, games and survival skills, students will embark on understanding and appreciating the natural world around them. Students will also engage and learn more about each other as they develop interpersonal skills.

Mad Scientist

Ages 7 – 11

Students will observe and explore the wonders of the world around us through experiments, projects, literature, games and more! We will ask questions, test hypotheses, and work together to understand the natural world. **Students may take this course multiple years, as topics rotate.**

Lego Science

Ages 7 – 11

STEAM concepts will be brought to life using the perennial favorite, LEGOs! Students will be presented with challenges that encourage them to explore multiple ways to solve problems, all while using the engineering design process. In this team-based course, students will learn to troubleshoot, modify plans, and create strategically.

Outdoor Adventure Skills

Ages 8 – 15

This outdoor course gives students hands-on experience with the natural world. Students will develop skills to help them navigate the great outdoors as well as wilderness survival skills. Some of this year's topics may include: wild foraging, shelter building, fire starting, campfire cooking, hand woodworking skills, outdoor games, and other topics according to students' interests. *Additional Materials: Fixed-blade knife required for some topics.*