



**PATHWAYS STEM
SUMMER CAMP
WEEKS 1-4
Ages: 7-12**



Our classes sizes are kept small at no more than 6 kids per class. Every week of camp will include 3 x 60 minute classes in STEM technology.

- 1) **Computer Programming (60 minutes):** The kids will take computer programming classes in Scratch, Ozaria, HTML, and/or Python depending on their age, interests and ability level. They will learn how to program using fun games, spiral designs, and apps. The goal is to learn the logic behind programming and basic functions that will prepare them for coding in Python. If your child has already taken Pathways beginner programming they will be moved to the level they are at. Our programs are designed to keep pace with the individual child.

- 2) **Computer Aided Design (CAD 3-D - 60 minutes):**
Many kids love the creative side of technology such as designing 3D objects using computer aided design software or CAD. The kids will begin by learning TinkerCad. TinkerCad is an entry level CAD design tool where the kids will learn to make cars, unicorns, action heroes and more. Those who have developed an expertise in TinkerCad will begin to learn other more advance software..

- 3) **Lego Robotics (60 minutes):** If your child loves legos this class is perfect for them. The children will start with WeDo and/or Spike robots depending on their level of knowledge and robotics skills. They will learn how to use block coding to get the computers and iPads to communicate with the robots to make them move and perform certain tasks. Robotics is great for teaching critical thinking and problem solving skills!

In addition to the technology time the kids will get a 30 minute snack time for fun and social time with friends!

Dates: Week 1 - July 8, 9, 10, 11 and 12th @ 1:00pm-4:30pm
Week 2 - July 15, 16, 17, 18 and 19th @ 1:00pm-4:30pm
Week 3 - July 22, 23, 24, 25 and 26th @ 1:00pm-4:30pm
Week 4 - July 29, 30, 31; Aug 1 and 2nd @ 1:00pm-4:30pm

Location: 9 Church Lane in Montville

Cost: \$350/week

Register at Montville Recreation website - Pathways STEM Summer Camp 2024. Each week is listed separately for registration. You do not have to be a Montville resident to register!



Pathways Explorer Robotics Camp Ages 6 to 7 for Two Weeks



This camp is perfect for Lego-loving kids ages 6-7. It will give younger children the opportunity to dive into the world of robotics. It will show them how robots are use in so many areas of life! Children will be using Spike Essential Robots during both weeks of camp.

Week One: Explorer PlayMakers - July 8 - 12 @ 9:30am-12:00pm

The goal of PlayMakers is to ignite curiosity of how the human body works and the importance of healthy activity in daily life. The children will receive a unique experience of how the heart rate goes up as a person becomes more active in play and exercise through constructing a robot model. Through combining Legos and their imaginations they will be able to build robots and environments to explore how playgrounds and parks can be redesigned to be more fun, interactive and help get kids moving! Whether it is designing a new slide, carousel, or obstacle course we will imagine how robotics can be used to help get kids more active and having fun!

Week Two: Explorer Cargo Connect - July 15 - 19 @ 9:30am-12:00pm

The goal of Cargo Connect is to teach children how the world delivers packages and cargo all over the world! With Legos and boundless imaginations, they'll redefine the intricate process of loading, transporting, and delivering cargo via trucks, planes, boats, and more. From innovative packaging ideas to more effective delivery methods, our young engineers will collaborate to find solutions and make it happen!

Our Explorer camps are not just about robotics—it's about teamwork, listening skills, confidence-building, and loads of fun play activities. The children will present their ideas in groups to each other, plan and draw out their ideas, and use these strategies to solve problems. Finally we will collect some projects made and put them together in one BIG poster. It's a chance for your child to shine and share their amazing robot models, artwork, and ideas with everyone at Pathways Annex this summer. Don't miss out—sign up now for a week of fun, creativity, and robotics magic!

In addition to the robot time the kids will get short snack and social times with friends! Register for one week or both!

Dates: Week 1 - July 8, 9, 10, 11 and 12th @ 9:30pm-12:00pm
Week 2 - July 15, 16, 17, 18 and 19th @ 9:30pm-12:00pm

Location: 9 Church Lane in Montville

Cost: \$250/week

Register at Montville Recreation website - Pathways Explorer Robotics Summer Camp 2024. Each week is listed separately for registration. You do not have to be a Montville resident to register!



Pathways Competitive Robotics Summer Camp Ages 9-14 for One Week



Many kids have asked about what Pathways FLL Competitive team is about. This camp will take the kids through a brief overview of what is required to prepare for a competition. The four basic aspects of the FLL Competition scoring are based upon 4 aspects: 1) Robot design, 2) Core Values, 3) Robot Game, and 4) Innovative Project. We will explain what all four aspects entail and the skills and mindset needed to be able to compete effectively in competitions.

The kids will design a simple robot, strategize how to accomplish up to 3-4 missions on the competition board, research and design a project assigned to them, and develop an understanding of what the core values and team work mean in preparing for and during the competition. At the end of the week they will present what they have done to instructors in a similar way they would to judges at a competition. The six children involved in the camp will be placed in teams with 2 kids per team. The team that scores the highest number of points will win the mini competition.

Please note the kids that sign up for the camp does not mean they will be given a spot on the Pathways Competitive Team. This is only for the purposes of giving children a vision for what they will need to compete and understand the four basic areas in the FLL competition for children 9-14 years of age.

The children will be given short breaks for snacks and social time.

Pathways keeps our summer class sizes small at no more than 6 children per class making this an ideal learning environment. The kids will be teamed up in pairs and will work with a Spike Prime Robot.

Cost is \$350/week this includes all class material and equipment

Dates: ONE WEEK ONLY - July 22, 23, 24, 25 and 26th @ 1:00pm-4:30pm

Location: 9 Church Lane in Montville

Register at Montville Recreation website - Pathways Competitive Robotics Summer Camp 2024. Only one week available. You do not have to be a Montville resident to register!

All of our summer camps are operated by Pathways for Exceptional Children, and although we use Lego robots, our classes are not affiliated or operated by the LEGO® Group or by FIRST®.