



PATHWAYS STEM

SUMMER CAMP

WEEKS 1-4

Ages 7-9 and 10-12



Every week of camp will include 3 x 1 hour classes in STEM technology where the children will be learning the following:

1) Computer Programming (60 minutes):

The kids will take computer programming classes in Scratch, MIT App Inventor, and/or Python depending on their age 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 and will make lighthouses, playgrounds, race cars, action heroes and more. They will be challenged to make their own creative 3D designs as well. This will give the children the foundation skills to move onto more complex 3D softwares like Blender which will also be taught in the camp as the children advance in skill level.

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 3 hours of programs listed above, the children will be given 60 minutes of accumulated breaks where they will play sports, draw and paint, do arts and crafts, and perform science experiments. They will also get to explore what it is like to be a DJ. They will work with different types of DJ equipment and mix songs combining music and technology.

Finally, we will also be having the battle of the bots competitions. This is where children learn how to control robots using apps on iPads to battle each other. The children try to push each other's robots out of a designated square platform where the battles take place. Each day of the 5 day camp will offer 60 minutes of different break time opportunities for the children to explore, create, and have fun!

Pathways keeps our summer class sizes small at no more than 6 children per class making this an ideal learning environment.

Cost is \$275/week for 20 hours per week of camp. This averages to \$13.75/hr.

Dates:

Week 1 - July 11, 12, 13, 14 and 15th @ 1:30pm-5:30pm

Week 2 - July 18, 19, 20, 21 and 22nd @ 1:30pm-5:30pm

Week 3 - July 25, 26, 27, 28 and 29th @ 1:30pm-5:30pm

Week 4 - August 1, 2, 3, 4 and 5th @ 1:30pm-5:30pm

Location: 9 Church Lane in Montville

Have Questions? Please email Pathways at info@PathwaysKids.org

Register at Montville Recreation website - Pathways STEM Summer Camp 2022. Each week is listed separately for registration.

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