

Week 1 July 8-11th

Apollo 50 Challenge – Grades 7-12

Cost = \$40

Students will work in teams to land a replica lunar module on a 8- by- 10 foot map of the moons surface using a remote-controlled drone. Teams will utilize a LEGO Mindstorm EV3 robot to explore the lunar surface to complete missions. Previous experience with LEGO Mindstorm is required.

Location: RR 2 & 3

Camp Time: 9:00 am - 2:00 pm

Week 2 July 15-18th

Beginner Robotics – Grades 4-7

Cost = \$80

This camp is designed to teach students more about the fields of science, technology, engineering and mathematics (STEM). Campers will use the LEGO Mindstorms EV3 to design, build and program autonomous robots. Monday through Thursday, campers will work to solve challenges. On Friday, campers will take a field trip to local a business to learn about careers in STEM and the practical applications of robotics in industry.

Location: RR 2 & 3

Camp Time: 9:00 am - 2:00 pm

Math And...! – Grades 4-6

Cost = \$40

Campers will discover the mathematics all around them as we explore and have fun with the mathematics in games, animation, cooking, music, and more! Campers will use authentic mathematics tools to explore, create, and model with mathematics. Strategies for becoming more nimble with numbers will also be revealed - you may just amaze your family and friends!

Location: RR 1 & 4

Camp Time: 8:30 am - 11:30 am

Math And...! – Grades 7-9

Cost = \$40

Campers will discover the mathematics all around them as we explore and have fun with the mathematics in games, animation, cooking, music, and more! Campers will use authentic mathematics tools to explore, create, and model with mathematics. Strategies for becoming more nimble with numbers will also be revealed - you may just amaze your family and friends!

Location: RR 1 & 4

Camp Time: 12:30 PM - 3:30 PM

Register
ONLINE



CLICK HERE TO REGISTER OR VISIT THIS LINK:

<https://www.monroeisd.us/departments/curriculum/studentenrichment/summer-stem-camps/>

Questions? Matthew Prange 734.322.2730
matthew.prange@monroeisd.us

Week 3 July 22nd-25th

Advanced Robotics – Grades 4-8

Cost = \$80

This camp is designed to take experienced robotics students to the next level. Campers will use the LEGO Mindstorms EV3 to learn advanced mechanical design and programming skills. They will also have the opportunity to design and build innovative robots to complete tasks and compete in sumo and other robot games.

Location: RR 2 & 3

Camp Time: 9:00 am - 2:00 pm

Stop Motion – Grades 5-8

Cost = \$40/session

Learn the concepts behind film/video animation and make art come alive as stop-motion animation! With patience and problem solving, students will construct scenes and characters with paper models, clay, or other objects and shoot a short video with them— one picture at a time. At the end of the week, each student will have a set of short movies to be proud of and to share with friends and family.

Location: RR 1 & 4: Session 1 (July 22 & 23)

Camp Time: 9:00 am - 2:00 pm: Session 2 (July 24 & 25)

Week 4 July 29th- August 1st

Tetrix Camp – Grades 6-8

Cost = \$80

For students who are ready to advance beyond LEGO MINDSTORMS, this camp will feature the LEGO TETRIS building system in order to build larger metal robots. Students will learn design and basic tool skills, then learn to run their robots with the FIRST Tech Challenge (FTC) control system by programming their own Android App. Campers will work in small teams and also learn about the engineering process and electronics.

Location: RR 2 & 3

Camp Time: 9:00 am - 2:00 pm

Wild Wind – Grades 5-7

Cost = \$80

This project based camp is designed to get students engaged in science. Students will examine how the power of wind can be used to charge their MP3 player. Students will design, build, and test model wind turbine blades. Students will also use sensors to measure and record wind speeds.

Location: RR 1 & 4

Camp Time: 9:00 am - 2:00 pm

Week 5 August 12th-15th

Engineering for – Grades 5-7 the Environment

Cost = \$80

Campers will explore our connection with the environment and how it is being changed or threatened. Together we will work towards designing solutions to problems such as water quality, habitat destruction, and decreasing our ecological footprint. We will work to engineer designs that balance our need for using resources while limiting our environmental impact, such as making solar cookers and learning how to filter water for drinking. If you like to spend time outdoors exploring our natural resources and want to learn how we can protect it, this camp is for you!

Location Knabusch Math & Science Center

Camp Time: 9:00 am - 2:00 pm



The Monroe County Intermediate School District does not discriminate on the basis of religion, race, color, national origin, sex, disability, age, height, weight, marital status or familial status in its programs, activities or in employment. The following person has been designated to handle inquiries regarding the non-discrimination policies: Elizabeth J. Taylor, Assistant Superintendent for Human Resources and Legal Counsel, 1101 S. Raisinville Road, Monroe Michigan 48161; Telephone: 734.322.2640.