

Tinker Tuesday 2.0

Spartan Academy
Where learning is a verb!



STEM classes for innovative 4th-8th grade students

Tuesdays 5:30-7:30PM

Marian Catholic High School Engineering Lab
700 Ashland Avenue, Chicago Heights

Register for classes at :
spartanacademy.campmanagement.com

Questions?

Please contact Becky Bosco, Director of STEM Programming
Office: 708-996-4636 or bbosco@marianchs.com

Dates&Topics

Oct 8th Augmented Reality

Explore AR with Merge Cubes, 360 goggles and your own art that jumps off the page! Bring home your own DIY cube!

Oct 15th Engineering Design Challenge

Engineer a BristleBot and challenge your friends to a battle! Discover ways to continue the engineering design process and improve your Bot.

Oct 22nd Lego Robotics-Part 1

Build and program your choice of Lego MINDSTORMS Robots to do as you command!

Oct 29th Lego Robotics Part 2

Continue to tinker with and program your Lego MINDSTORMS Robot or build a whole new one!

Nov 5th Stop Motion Movies-Part 1

Create your very own stop motion movie complete with posable figures, sets and 3D printed props!

Nov 12th Stop Motion Movies-Part 2

Continue the creative process and put the finishing touches on your movie just in time for Opening Night!

Nov 19th Technology Autopsy

Motors, magnets, gears, screws and circuit boards, oh my!! Explore the inner workings of everyday items around your home in order to better understand how they function!

Dec 3rd Space Lander Challenge-Part 1

Design and build a shock-absorbing system that will protect two astronauts when they land! You will follow the engineering design process to improve your design based on testing results.

Dec 10th Space Lander Challenge-Part 2

Continue designing, testing and improving your design. Make sure you are prepared for the ultimate challenge for the EDP Trophy !

(engineering design process!)

What is the Value of STEM Education?

“STEM-based education teaches children more than science and mathematics concepts.

The focus on hands-on learning with real-world applications helps develop a variety of skill sets, including creativity

The STEM vs. STEAM debate.

What is STEM?

“STEM stands for science, technology, engineering and mathematics. STEM programming teaches innovation, creativity, critical thinking, problem solving and collaboration among many other skills proven to lead to success.”

What is STEAM?

“STEAM stands for science, technology, engineering, **arts** and mathematics. The difference is that arts are included, ranging from visual arts, language arts and physical arts to music and more.

Full article at invent.org/blog/trends-stem

Like us at <https://www.facebook.com/SpartanSTEMAcademy/>

For additional details visit: <https://www.marianchs.com/apps/pages/spartan-academy>