

STEM EXPLORERS!

Do you know a child that loves to take things apart? Are they curious about how things work? Do they love to build and create? Whether it's robotics, coding and programming, engineering, nature, video games, or science, the STEM Explorers is for them!

The STEM Explorers is a fun monthly class for 3rd-6th graders where they will learn about electronics, mechanical engineering, environmental science, assembly and manufacturing, tools and more! Student interests will drive the class because we want to help them to discover what they love to do. These are free classes that meet at the Phelps Library's STEAM Lab Makerspace in 6 month sessions on the 4th Saturday of the month from 12pm-2pm.

MARCH 24: Each participant will receive a free tool box with tools. Learn about the mechanics of household items by taking them apart.

APRIL 28: Learn about tooling! We will use hardware like nuts, bolts, and screws, quality control, and measuring by investigating the treasures we dismantled in the first class.

MAY 26: Build an augmented reality sandbox! Using a computer, 3D projector, and special sand, pushing the sand into mountains will change the topography projection in real time! Hold your hand over the sand to make it rain! We will learn about electricity and volts.

JUNE 23: Continue building the AR Sandbox and program the equipment with software. Learn about our region's watershed and our impact on water quality.

JULY 28: Take field trips to some of our local, innovative manufacturers!

AUGUST 25: Visit Flint Creek on Ontario Pathways to collect water and aquatic insect samples to monitor our local water quality. Use microscopes to investigate the insects. Speak with a member of NYS Environmental Conservation to learn more about environmental science.



This class will be led by Nick Hargarther with assistance by Leah Hamilton, Library Director. Students must be registered by calling 315.548.3120 or signing up at the library. We have 4 spots for girls and 4 spots for boys. If the class is full, please sign up on our waiting list as we will be repeating this class at the end of the six month session and your child will receive first priority next semester.

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