



Austintown Local Schools District STEM Newsletter

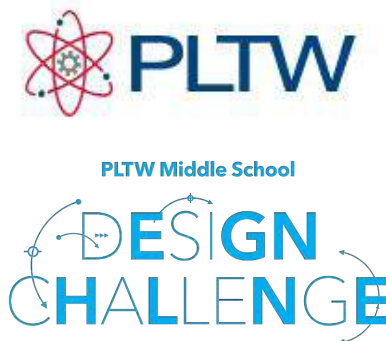


"We provide an inspiring education that strengthens and prepares our students for unlimited future opportunities."

September 2018

1ST YEAR FOR 6TH GR. STEM PROGRAM!

Students will be engaged in project-based learning using all subjects of math, science, social studies, and language arts while completing various Project Lead the Way modules, such as Design & Modeling, Automation & Robotics, and Medical Detectives. Students began learning the design process and fundamentals of design and will begin their first project: Designing their own hobby organizer. [Click here](#) to access the AMS STEM website.



NEW THIS SCHOOL YEAR!



#GOSTem

5TH GRADE LAUNCH PROGRAM



All 5th grade students will receive nine weeks of daily instruction in automation and robotics while participating in Project Lead the Way's Launch Program. In this grant funded program students will use block-based programming of VEX IQ robots to solve problems. [Click here](#) for more information about PLTW Launch.

CIVIL & ARCHITECTURAL ENGINEERING



Fitch High School is offering Civil & Architectural Engineering for the first time this semester. Students are learning the fundamentals of design using AutoDesk Revit, an industry standard architectural software.

COMPUTER SCIENCE 1, 2 & 3

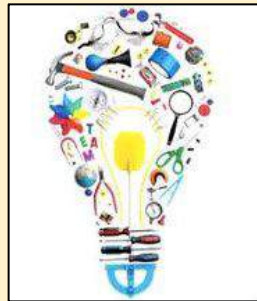
Fitch is offering Computer Science 1, 2, and 3 semester courses. Upon completion students can sit for the AP Exam to received college credit for Computer Science Principles, a college course required for many majors!



Students in Grades 1-8 participated in the National Hall of Fame and private donor sponsored summer programs *Camp Invention* and *Invention Project*. Students received first-hand experience building light following robots, constructing a green home, creating their own inventions, and much more! [#GoSTEM](#)



STEM SUMMER CAMPS



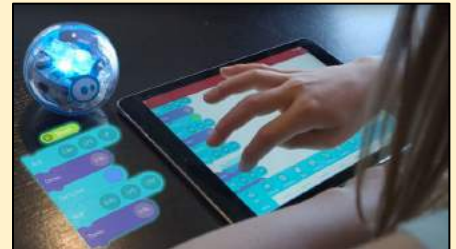
The Mahoning County Career and Technology Center brought their mobile FabLab to AIS during STEM summer camp. Our youngest Falcons experienced virtual reality, drone technology, flight simulation, and robotics.



Students in 5th grade began the Project Lead the Way's Launch course. This STEM specials class provides nine weeks of daily instruction in robotics and automation. In addition, students solve a mystery at their school using the scientific method.

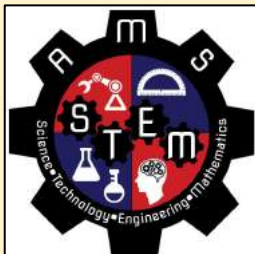


AUSTINTOWN INTERMEDIATE SCHOOL



The Mahoning County Career & Technical Center (MCCTC) brought their Mobile Fab Lab to AIS on Sept. 20th and 21st. Students got to take off and land a plane using flight simulation. They drove Spheros robots through the playground and experienced laser engraving and 3D printing. In addition, they road roller coasters while wearing virtual reality goggles. Thank you to the MCCTCC for giving this opportunity to our young Falcons. [#GoSTEM](#)





[Click here](#) to access our YouTube Channel and watch videos from the year.

AUSTINTOWN MIDDLE SCHOOL

[Click here](#) to access our class website to see projects from the school year.

Austintown
Middle School
STEM website



Click above to watch a promo video made by Austintown Community Television of our annual weather balloon launch last spring.



Students held their first Jr. STEM meeting with 7th & 8th grade students facilitating lessons and displaying projects. 6th grade STEM students are encouraged to attend as they will be facilitating soon as well.



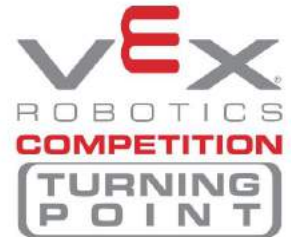
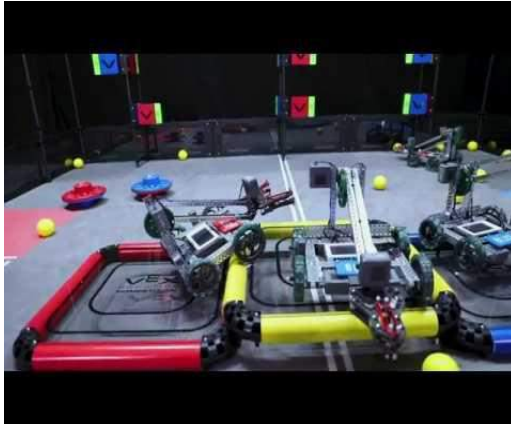
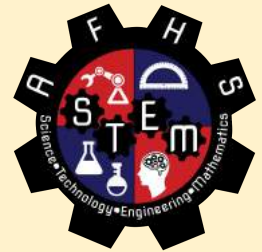
All students will tour America Makes, an additive manufacturing facility housed in the Youngstown Business Incubator followed by a presentation on our current night sky and a show at the Ward Beecher Planetarium. Students will attend during certain dates this fall.





AUSTINTOWN FITCH HIGH SCHOOL

"We provide an inspiring education that strengthens and prepares our students for unlimited future possibilities."



Students have begun preparing for the VEX Robotics Competition "Turning Point". Two teams will compete several times this year building and programming their robots in this strategic game. Students meet twice weekly after school in preparation for their first competition on November 10th. [#FalconRobotics](#)

YOUNGSTOWN STATE UNIVERSITY



*College of
Science, Technology,
Engineering &
Mathematics*

All STEM and Computer Science students will tour specific departments of the YSU STEM College this fall learning about engineering and information technology.

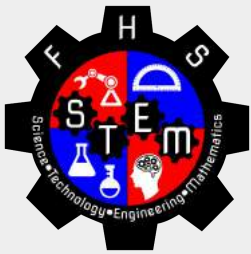


Computer Science 1 students are beginning using a block based coding system called Scratch. Learn it for free by going to the MIT website: <https://scratch.mit.edu/> What do you want to learn today?

Computer Science 2 students are creating mobile apps using App Inventor on Android devices. They are learning binary code and the hexadecimal system as a prelude to using Python.



Architectural and Civil Engineering students are modeling many various structural styles in preparation for using AutoDesk Revit.



Austintown Local Schools STEM Programs

Meet Our Staff



Chris Berni



Danielle Chine



Doug Eisenbraun



Josh Folkwein



Jason Freudenberg



Lauren Hrusovsky



Ashley Smith



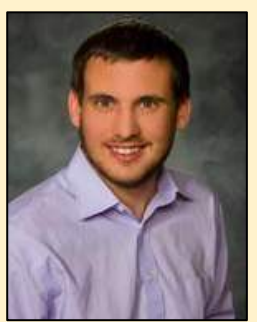
Celia Sroka



Jessica Tomic



Brian Umstead



Robert Wyant



The vision of Austintown Local Schools is to offer a united community with a proud legacy and a progressive approach to education. We prepare our students by providing an inspiring education with a focus on a future of unlimited possibilities. One way of extending progressive educational initiatives is through our many **STEM (Science, Technology, Engineering & Math)** programs and extracurricular activities starting in kindergarten through graduation. These programs provide a project-based and student-centered learning environment with a focus on 21st century skills to give our students skills to ensure success that lasts a lifetime.



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[Austintown STEM website](http://AustintownSTEMwebsite.org)