



Austintown Local Schools District STEM Newsletter

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



March 2019

Registration Edition



**Now Registering All STEM Programs
2019-2020 School Year
For Incoming Students in Grades 6-12**



Austintown Local Schools STEM Program Grades 6-12



2019-2020

*We provide an inspiring education that
strengthens and prepares our students for
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[Click here](#) to access a presentation reviewing our STEM programming available to students in grades 6-12.



We are currently enrolling students in our STEM Programs for grades 6-12 for the 2019-2020 school year!

[Click here](#) to access the school STEM website to gain more information, review monthly newsletters, and register your child.



Now Registering for STEM Summer Programs for Incoming Students in Grades 1-8



The National Inventors Hall of Fame summer programs, Camp Invention and Invention Project, are coming to Austintown Schools for the third year in a row! These hands-on STEM summer camps are possible due to generous donations from private donors. Registration is FREE for students and is first come, first served.

[Click here](#) for more information, dates, and to register your child. #everychildinvents



STEM DAYS AT AIS

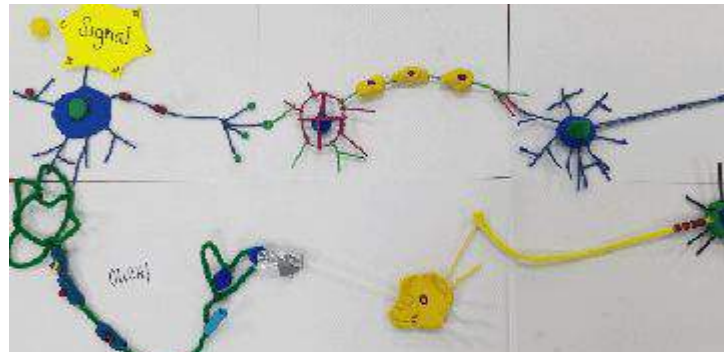
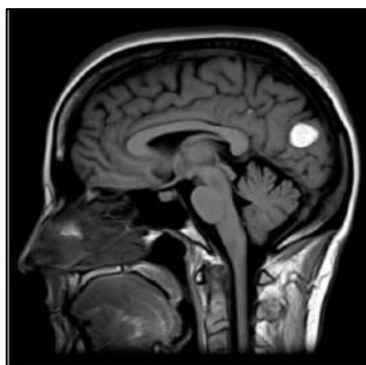


AMS & Fitch STEM students hosted the third annual STEM Days at AIS. All 3rd and 5th grade students got to learn about 3D printing, circuitry, robotics, medical equipment, and the Soap Box Derby. Thank you to the AIS PTA for sponsoring this yearly event! #stemforeverybody



AMS Students in Medical Detectives Course Solving Mysteries

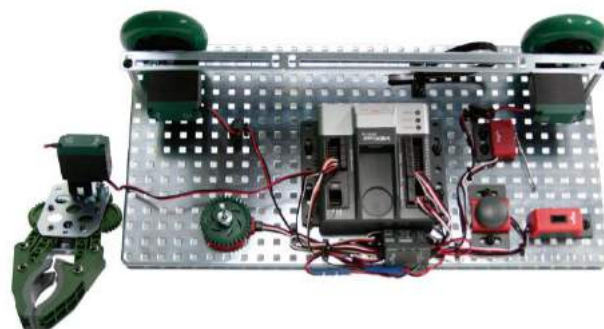
6th grade students are investigating the nervous system and nerve cells by diagnosing patients with certain neurological diseases. Pictured below is a class created gif simulating a signal passing through neuron cells. Also, a diagnostic image of a brain tumor located in a specific lobe of the brain was determined by students. They will use this learning to dissect a sheep brain with similar medical anomalies. Go STEM!



AMS Students Exploring Automation and Programming

```
33
34   When push button is pressed
35   Reverse motor, 1/2 speed
36   LED turns on
37
38   When limit switch is pressed
39   Stop motor
40   LED turns off
41 }
42 */
43
44 task main()
45 {
46   untilBump (BumpSwitch);
47   startMotor (RightMotor, 127);
48   turnLEDOn (greenLED);
49
50   untilTouch (LimitSwitch);
51   stopMotor (RightMotor);
52   turnLEDOff (greenLED);
53
54   untilBump (BumpSwitch);
55   startMotor (RightMotor, 63);
56   turnLEDOn (greenLED);
57 }
```

Students are creating automated systems using natural language coding and programming.



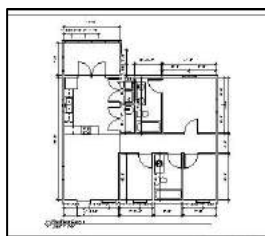
AMS Students Preparing for the Soap Box Derby



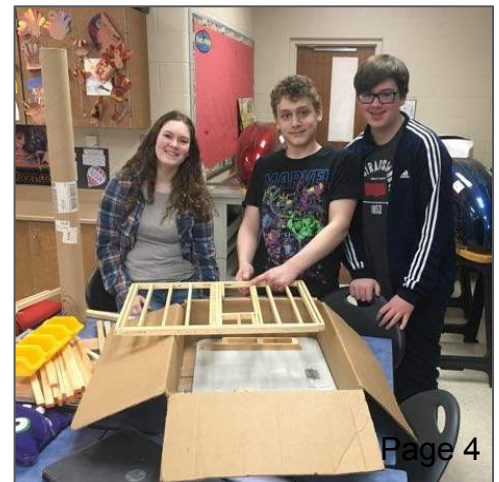
Six Soap Box Derby cars are being built and prepared for racing at the STEM Gravity Racing Challenge on Saturday, May 18th at Derby Downs in Akron.



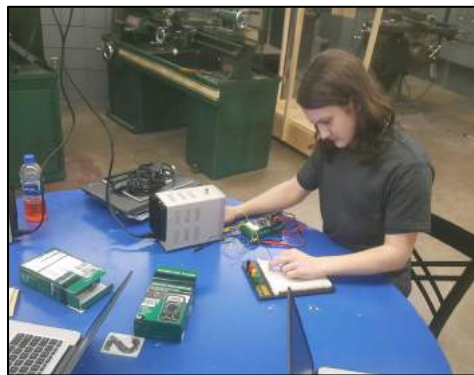
AMS Students Creating Model Homes in Green Architecture



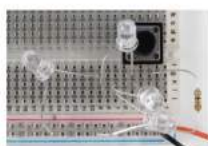
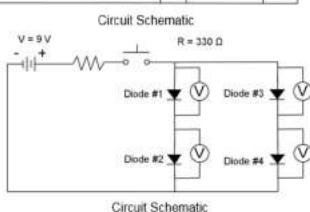
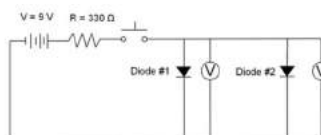
8th grade students are assembling model green homes in the Green Architecture unit. They created scaled drawings of blueprints using triangular architectural rulers and are using programs such as Homestyler.



Fitch Students Learning Circuitry and Basics of Breadboarding!



Students in Principles of Engineering are creating circuits by the use of breadboards. Breadboarding is a reusable platform used to temporarily model and build electronic circuits. Below is schematics of a parallel circuit and a model of a breadboard.



Physical Circuit



Physical Circuit



"Creativity is the secret sauce to science, technology, engineering, and math."
Ainissa Ramirez, Science Evangelist



You and your family are personally invited to experience...

The 7th Annual Austintown Local Schools STEM Showcase

Wednesday, May 8th

6:00-8:00 pm

AMS Cafetorium

Check out our student-maintained websites:
www.amsstem.com

The STEM (Science, Technology, Engineering, and Math) Program at Austintown Middle and Fitch High School gives students a project-based and student-centered learning environment with a focus on 21st century skills to ensure a future of unlimited opportunities.

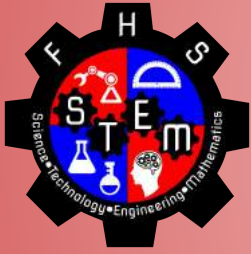
Applications are currently being accepted for the 2019-2020 school year for incoming 6th-12th grade students. For more information and to apply go to the Austintown Schools website, click on 21st Century Learning, then click STEM Program.

<http://www.austintownschools.org/Content/STEM>



- Live 3D Printing
- VEX Robotics
- Windmill Design
- AutoCAD
- Circuit Boards
- Soap Box Derby Cars
- Rocket and Airfoil Design
- Weather Balloon
- And Much More!





Austintown Local Schools STEM Programs

Meet Our Staff



Chris Berni



Danielle Chine



Doug Eisenbraun



Josh Folkwein



Jason Freudenberg



Lauren Hrusovsky



Ashley Smith



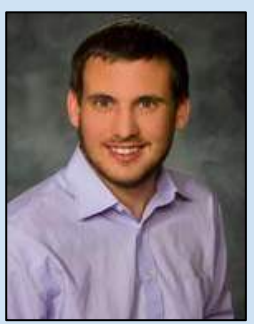
Celia Sroka



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](#)