



Austintown Middle School **STEM Newsletter**



September 2017

Calendar

Thursday, Oct. 5th- Picture Retakes

Friday, Oct. 6th- YSU Manufacturing Day Field Trip all STEM students

Wednesday, Oct. 11th- 2hr. Early Dismissal

Friday, Oct. 13th- NEOEA Day, No school for students

Thursday, Oct. 19th- Jr. STEM Meeting until 3:45 pm

Friday, Oct. 27th- End of 1st nine weeks



Introducing the AMS STEM students for the 2017-2018 School Year!

Welcome Back to School!

This is the STEM Newsletter for September. This monthly newsletter notifies parents of upcoming events in STEM, as well as, an overview of the content and projects students are learning in class. Please check out the calendar of events for the upcoming month on the left.



Maryn was all smiles while test driving her car specifically designed and programmed to travel 25 feet as fast as possible.



8th grade students designed, built, and programmed drag racing cars specifically designed and geared for top end speed and/or torque.



Emma and Alivia built and programmed their cars to travel 25 feet as fast as possible. Students used the design process, prior knowledge of simple machines, and new programming skills to complete this mission in the Automation & Robotics unit.



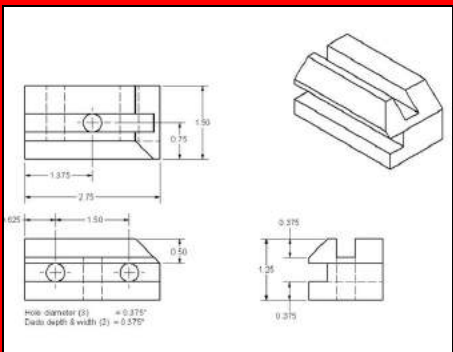
The 8th graders made good use of leftover newspaper by invading the 7th grade classroom.



Progress Book will be used to post grades the same as last year. See student login instructions at the end of this newsletter. Login info is the same as last year.



Students implemented the design process and team building skills to construct a pizza box chair to withhold the weight of Mr. E.



This is the block 8th grade STEM students will be manufacturing with and Automated VEX assembly line they will engineer, build, and program soon.

7th Grade

- ★ Students started the Design & Modeling unit by working in teams to research an invention and how it has been innovated over time. Teams then presented their findings to the class.
- ★ Teams then designed and built pizza box chairs. They were required to build their chairs using no more than 6 pizza boxes. Each team member had to be able to sit on the chair they built, and earned bonus points in Mr. Eisenbraun was also able to sit on it.
- ★ In math, students learned the basics of probability. This year we are using a new math curriculum called College Prep Math

(CPM). Students are working in teams of 3 or 4 throughout each lesson. At the end of each chapter they will take a team test and an individual test (only a team test for Chapter 1).

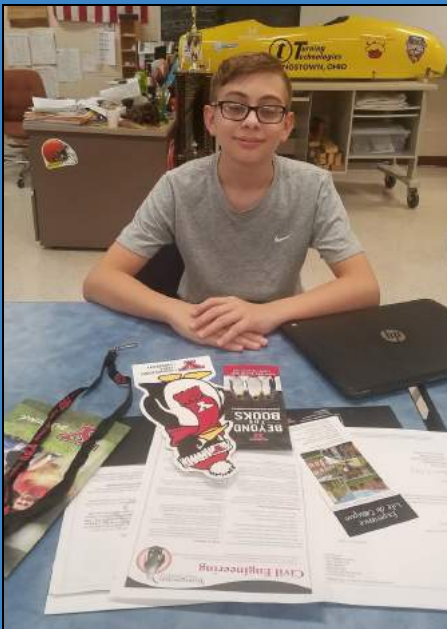
- ★ Students are learning about the hydrologic cycle in science. Throughout their learning, they have researched water contamination in Ohio. They are currently looking for solutions to water problems (acid rain, erosion, runoff, storm water flow). They are focusing on specific locations for the problem they are researching.



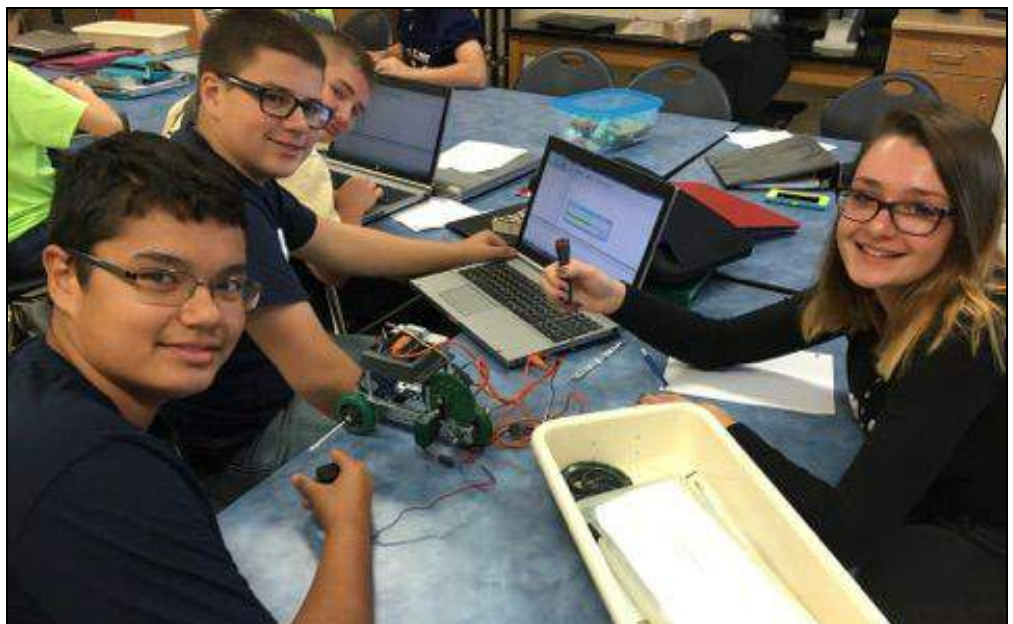
Check out the AMS student website, www.amsstem.com. Here you will find current articles, pictures, and info from previous years



Erin, Carli, Maryn used the new 3D printer MakerBot Replicator Plus to print a turtle with movable arms and a princess castle.



Vincent Evans received a response from the Youngstown State University Engineering Department after sending a professional business letter.



Tommy, Jon, and Carli built and programmed their robot as part of the Automation & Robotics unit.



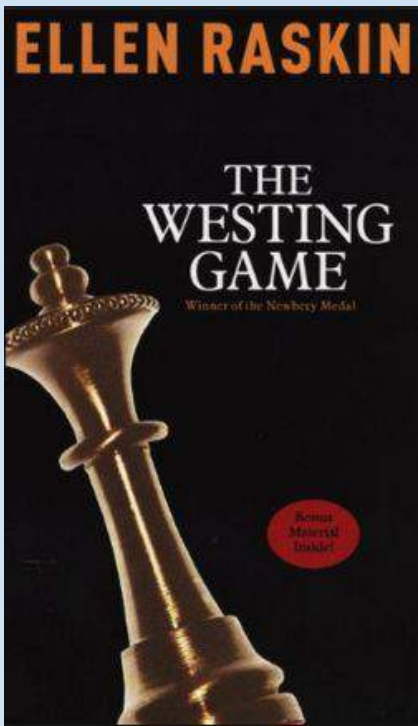
We will be using Schoolology, an online classroom management site. Content and assignments are there. Your child can show you how to log in using their school email and password. The phone app is phenomenal and free.



8th graders holding up their final positions in the annual VEX drag race with cars they designed, built, and programmed.

8th Grade

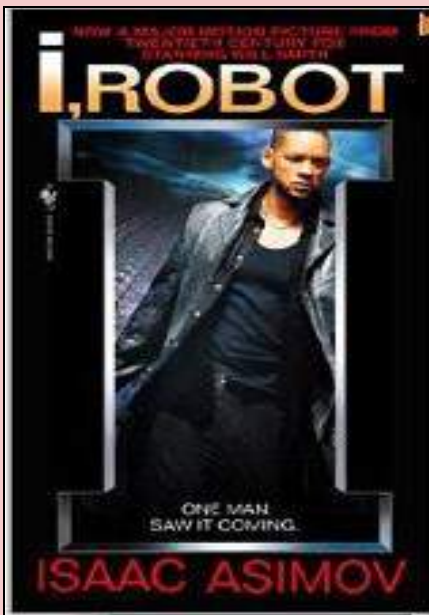
- ★ Students finished engineer, building, programming, and racing the VEX dragster, and are now preparing for the next Automation and Robotics unit which will have the students designing, building, and programming automated robotic systems, such as factory assembly lines.
- ★ In Language Arts, students are applying the basics of figurative language as they use their personal narratives to analyze literary elements.
- ★ We are halfway through Isaac Asimov's *I, Robot* which ties in with our VEX robotics unit.
- ★ Students began the Earth Science unit with the study of seismic waves. They learned how to read seismograms, and how to use that information to determine the magnitude of an earthquake, and the distance from the epicenter.



7th graders began reading the "who done it", *The Westing Game* by Ellen Raskin.



AMS STEM students guided their 6th grade peers through the design process during the first Jr. STEM meeting of the year.



The 8th graders are reading *I, Robot* by Isaac Asimov while learning the Project Lead the Way module, Automation and Robotics.



Student Progress Book Login Instructions

In order to setup your Progress Book account you will need to start at the Austintown Local Schools home page and under the Student Tab choose Progress book. Then select the Sign Up option at the bottom of the page and use the registration key provided.

Expectation



Reality



Students created memes that showcased many of the big obstacles facing early settlers in Social Studies class.



National Manufacturing Day 2017
3D Printing Design Competition
WIN A 3D PRINTER!

Win a New
FlashForge
Finder
3D Printer!!!

Students are submitting their unique 3D designs for judging and competition at the First Annual YSU National Manufacturing Day event taking place on October 6th.



SOFTWARE ANSWERS
ProgressBook.

Sign In

Enter your login Information

User name *

Password *

☐ Remember me

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Sign Up

New to ProgressBook? You will need to create an account and enter a registration key provided by your school district.

 Sign up

See your teachers if you need your Registration Code.
Please make your username your school email address.



The Austintown Local Schools Canfield Fair display is shown above. The theme for this year was “STEM” and it showcased many of the innovative projects and happenings in the STEM Program district-wide!

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[Austintown STEM Website](#)

[AMS STEM Student Website](#)

