



Austintown Middle School **STEM Newsletter**



October 2017

Calendar

Nov. 7th- Election Day

Nov. 8th - 2 hr. Early Release

Nov. 11th- Veteran's Day
Assembly

Nov. 16th- Jr. STEM Meeting

Nov. 21st- Conference Night

Nov. 22-24th- Thanksgiving Break



Parent Teacher Conferences will be Tues. Nov. 21st from 2:45-9:00 pm and are first come, first serve. A link from Doodle was sent via email or click the link below.

[Sign up for conferences here.](#)



Keeping with Austintown STEM tradition, students dressed in their best Viking gear in celebration of Leif Erikson Day on October 9th!

Greetings,

STEM is in full swing as students have concluded the end of the first nine weeks. There have been many exciting events throughout this past month. We had our first field trip to the YSU STEM College for Manufacturing Day. It was here students experienced first-hand, cutting edge manufacturing technology with representatives from American Makes, Vallourec Star, Taylor-Winfield, and other additive manufacturing companies.



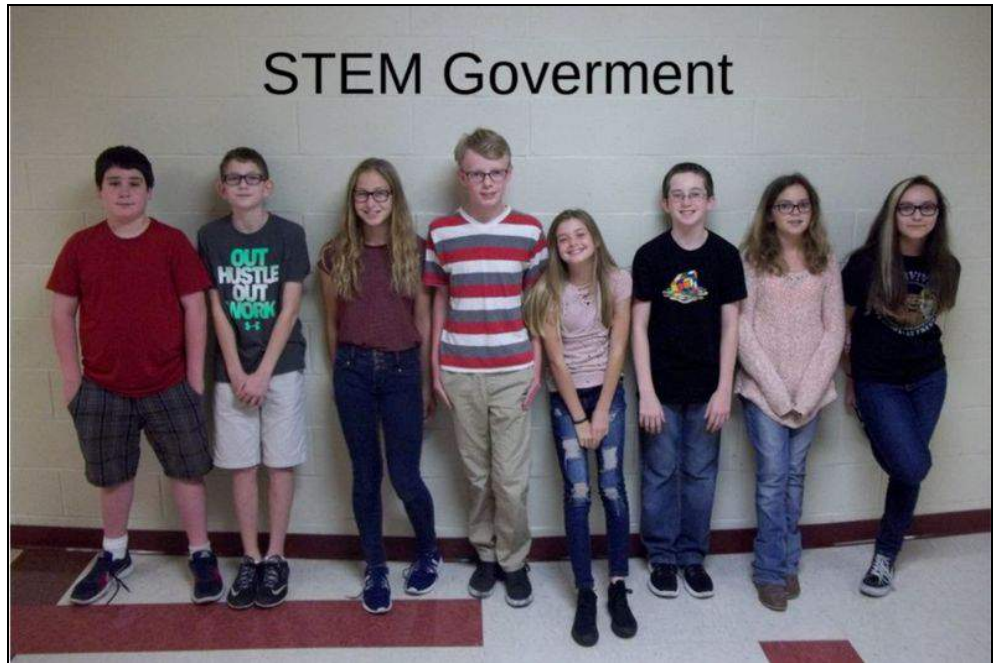
Jude got a reply from the YSU STEM College Dept. of Mechanical Engineering in response to his business letter.





Morgan is strumming the strings of a 3D printed ukulele. Many 3D printed items from private companies and YSU were on display during the Manufacturing Day event at YSU.

Report cards will go home with the students by Friday, Nov. 3rd. Parent-teacher conference will take place Tuesday, Nov 21st. See the box to the left regarding conference times and click on the link to schedule a conference. Conferences are first come, first serve.



The people have spoken... announcing the 7th grade STEM Government for the 2017-2018 school year.



Report cards will go home with students by Friday, Nov. 3rd.



Author and Abby posed with their letter As on the field trip to YSU.

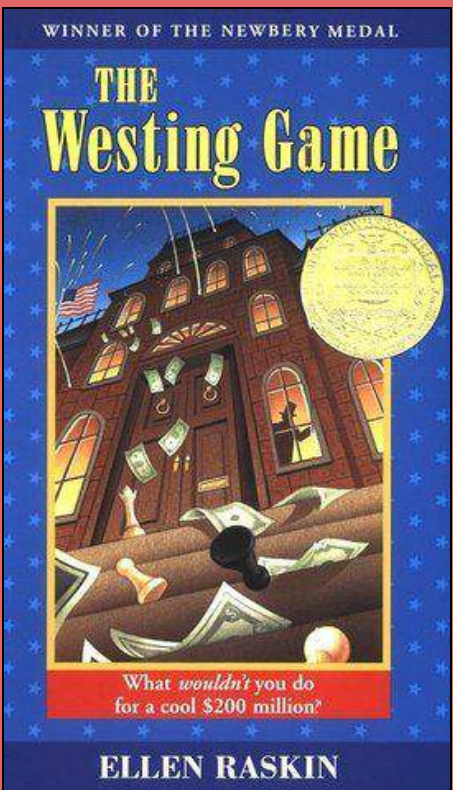
schoolology
learn. together.

Please check out [Schoolology.com](https://www.schoolology.com) for access to assignments and activities from class. The phone app is awesome!



Mr. E was like a kid in a candy store while recording the revving up of a jet engine. Let's hope the speaker isn't blown on his phone.

**SUCCESS IS 10
PERCENT
INSPIRATION AND
90 PERCENT
PERSPIRATION.**



7th graders are reading the classic story of "Who Done It" mystery, The Westing Game.



Devin got behind the wheel of a Baja Car built by YSU Mechanical Engineering students.



Students experienced many types of 3D printing in action during the Manufacturing Day event at YSU.



Students listened to a speaker discuss “The Wonder of 3D Printing”.



Laura, Bella, and Maryn pose with their T-shirts from Vallourec Star.

MISSING

NAME: MR.EISENBRUN
DATE MISSING: OCTOBER 3RD
LAST SEEN: AMS STEM CLASSROOM

IF YOU SEE HIM CALL
330-STEM-GECKS

OR GO TO
WWW.MR.E'SMISSING.COM

Has anybody seen Mr. Eisenbraun? Fyi, this is a picture of Mr. E taken while in college.

7th Grade

- ★ Students just finished the chapter, *Fractions and Integer Addition*, and are solving real-life problems using the concepts of adding and subtracting negative and positive integers.
- ★ Students are researching atmospheric and oceanic currents of Earth. Next, they will study the atmosphere, and how its properties change with altitude.
- ★ All students are currently using Google Docs to create presentations and documents. They are able to collaborate with each other on working documents. Ask them and they will show



Students visited the Launch Lab at YSU Manufacturing Day.

you how!

- ★ Students are concluding the *Design and Modeling* unit by designing their own ancient civilization playground. Students are working teams, researching and creating a playground based on the culture of an ancient civilization of their choice. They are applying the whole design process, including creating working drawings and scaled sketches, building in AutoDesk Inventor, and 3D printing working models of their creations. These projects will be presented at parent-teacher conference night.
- ★ 7th Graders finished, *Life as we Knew it*, by Susan B Pfeffer and are writing a literary analysis of the text. This is a very exciting story, and the first of three novels they will read in the series. Soon they will tackle, *The Westing Game*.



Many 3D printing and additive manufacturing vendors were displaying their creations during Manufacturing Day at YSU.

The Puritan Post

SINCE 1620



Giving thanks to the Native Americans
By: Alivia Franklin
Squanto the Indian taught Pilgrims to farm after a harsh winter to help their

First Sign of Self-Government?
By: Emma George

While on the Mayflower the Pilgrims showed the first sign of self-government in North America. This changed American history.

The Mayflower compact was an agreement that was invented so the Pilgrims can choose their new leaders and laws. This was the first sign on democracy, and self-government in the United States.

The Mayflower compact was the very long document that can be explained in the few sentences: The Pilgrims voyage to Virginia for freedom of religion and to plant the new colony. They created the civil body politic for better ordering and preservation. This will create new laws, and have town meetings. This will be written on November 11th 1620.

Students created their own newspaper from the time of the colonist. Show above is The Puritan Post which details life of a colonist during that time.



Students collect suggestions during Jr. STEM. All ideas and comments are welcomed!



Alivia received materials from The University of Notre Dame in response to her business letter she sent.



Devin strums a 3D printed guitar while testing for acoustic quality.



Students worked in collaboration with building and programming to learn how to use various motors and sensors in the Automation and Robotics unit.

8th Grade

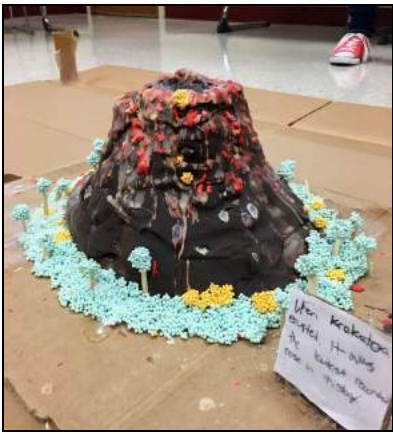
- ★ The students finished up the VEX First Engineering Job and it was a huge success. Students had to apply programming and building skills to create an engineering marvel. Students made automated chairs for going up stairs, cars using many motors and sensors, and a cardioregulator machine that runs at the speed of a heartbeat. We will revisit VEX later in the year to build on this progress.
- ★ Eighth graders are beginning the STEM unit, *Magic of Electrons*. They were introduced to the periodic table of elements and have tested out various conductors and insulators in the classroom.
- ★ In Science, students are continuing with their studies of the Earth and its geological processes. Recent focus has been on karst topography and how weathering and erosion are involved in cave systems.
- ★ We also continued our reading of *The Last Survivor Series* from last year with the third book, *This World we Live in*.
- ★ In Math, 8th graders are finishing Chapter 3, *Graphs and Equations*, and will be starting Chapter 4, *Multiple Representations*, at the start of November. In this next chapter, students will be making connections between patterns, tables, graphs, and rules to solve problems.



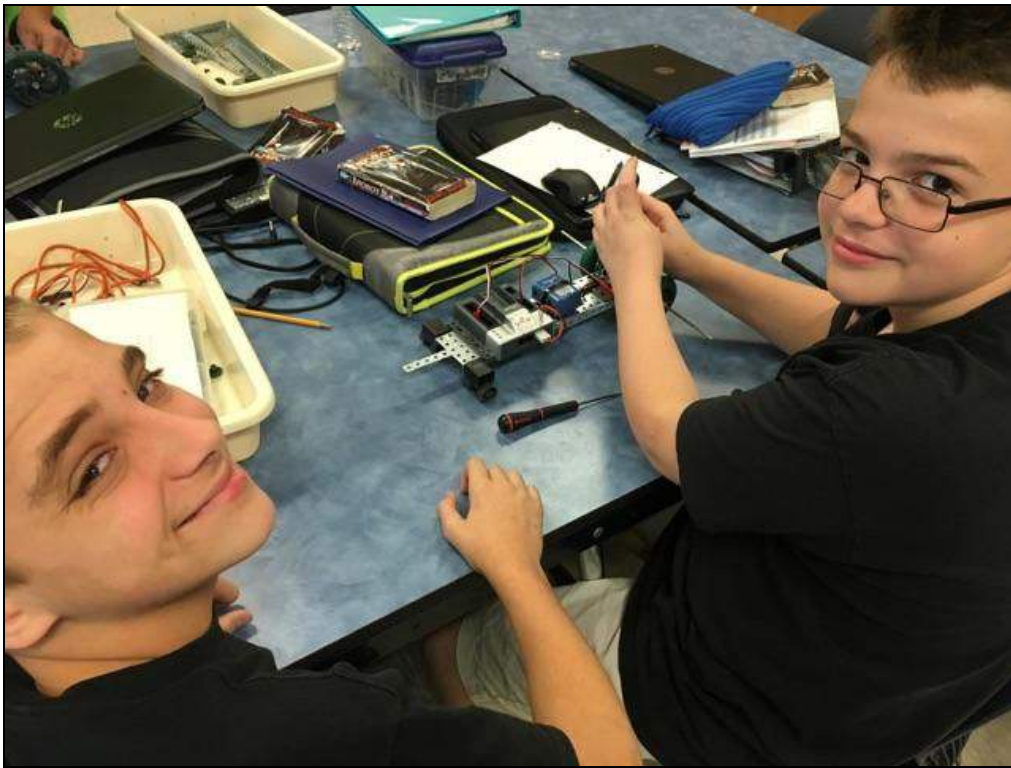
In preparation for Leif Ericson Day students came ready to invade.



Amira Welch poses with the W at YSU during the Manufacturing Day events.



Students create working models of various volcanoes found throughout the world.



Contact information:

Jason Freudenberg- STEM Teacher

Email: jfreudenberg@austintownschools.org

Doug Eisenbraun- STEM Teacher

Email: deisenbraun@austintownschools.org

Danielle Chine- K-12 STEM Instructional Coach

Email: dchine@austintownschools.org

Austintown Middle School

800 S. Raccoon Rd.

Youngstown, OH 44515

www.austintownschools.org

330-797-3900

Follow Us on the Falcon Nation App: <https://fitch.drund.com/profile/74479/>

Learn More: [STEM Informational Website](#)

[Middle School STEM Website](#)

[Fitch High School STEM Website](#)

Apply Today: [High School STEM Application- Fitch](#)

[Middle School STEM Application- AMS](#)

