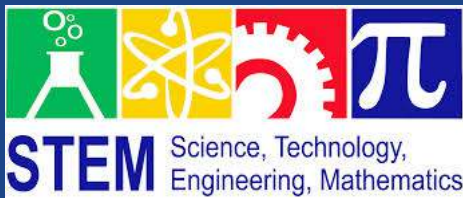


AMS STEM *September Parent Update*



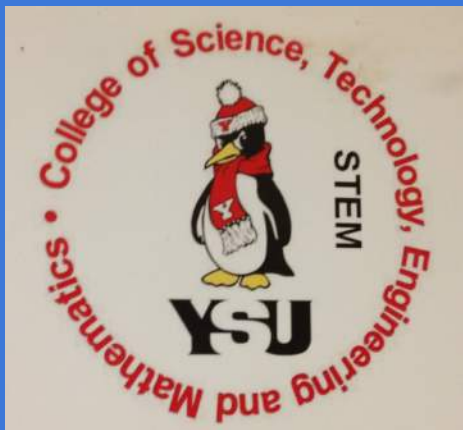
Be sure to check out our student-maintained website amsstem.com for more pictures and updates!



A few of our 8th graders are currently working on finalizing the video of our weather balloon launch last spring. Above is a screenshot of Snoopy riding our 3D-printed rocket into space! Look for the video on our Youtube channel in the coming weeks!

First Field Trip!

We took our first field trip this past Tuesday. We visited the YSU Planetarium, Chemistry, Geology, and STEM departments followed by lunch at Kilcawley Center.



Hi Everyone,

This is your STEM Parent Update for the month of September! It has been an exciting first month of the program. For simplicity and unity, we are combining both the 7th and the 8th grade STEM classes in this newsletter.

7th Grade

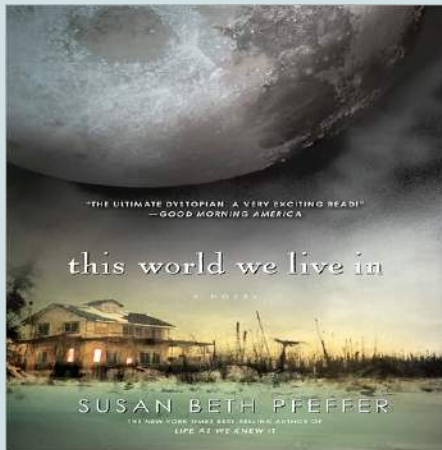
- Students designed and built chairs out of recyclable materials when learning about the design process. They assembled Legos and sketched orthographic projections, isometric drawings and used metric/English measurement to model their sketches.

For Language Arts and Math enrichment encourage your child to use MobyMax!

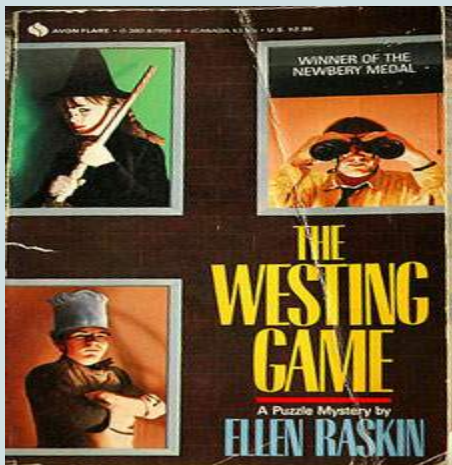


Reading in STEM

The 8th grade is finishing the final book in the Survivor Series, *This World We Live In*, continuing the suspense from last year.



The 7th graders are starting the year with an exciting mystery novel, *The Westing Game*.



- Students started creating in Inventor this week. Inventor is a computer-aided design program that lets you create objects in 3D. This connects with our current math topics of polygons, shapes and angles very well. Starting next week, students will take all of their newly acquired skills and design, model in Inventor, and create a working prototype of an ancient playground and print out pieces using our own 3D printer!



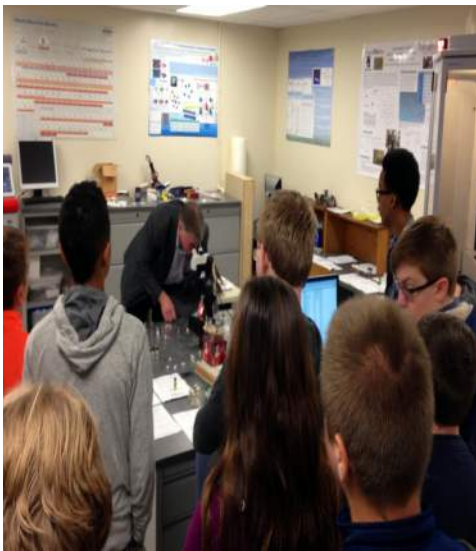
- Students built skimmers that glide along the ground using fundamentals of metric measurement and scale. The winners made their skimmers glide more than 80 feet. Congratulations to the winners!
- Students started a student government and campaigned and held elections. This is important because organization of the website and the interests of the students as a whole are represented by the students in office.

Real World STEM:

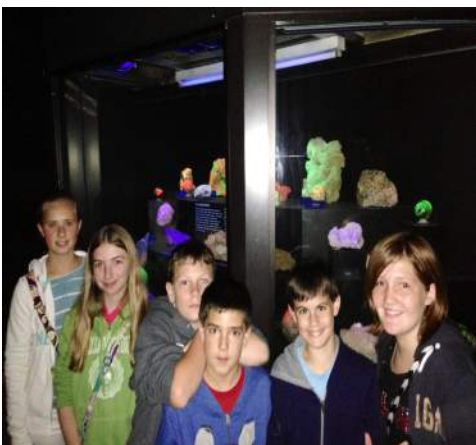
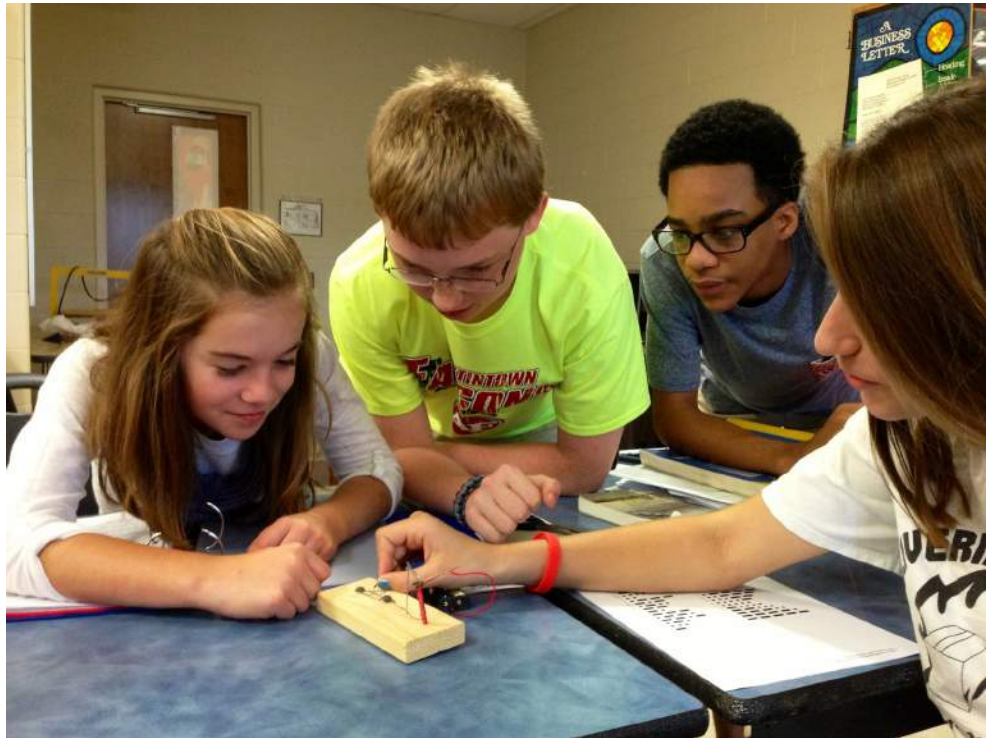
Mr. Penk took the 8th grade STEM class outside to measure the post holes for the new AMS pavilion using the Pythagorean theorem.



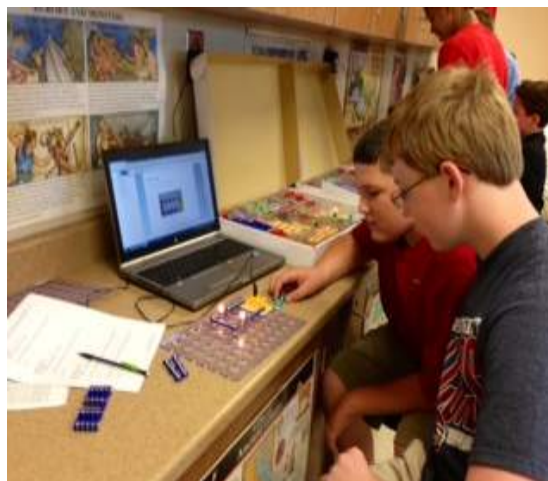
8th Grade



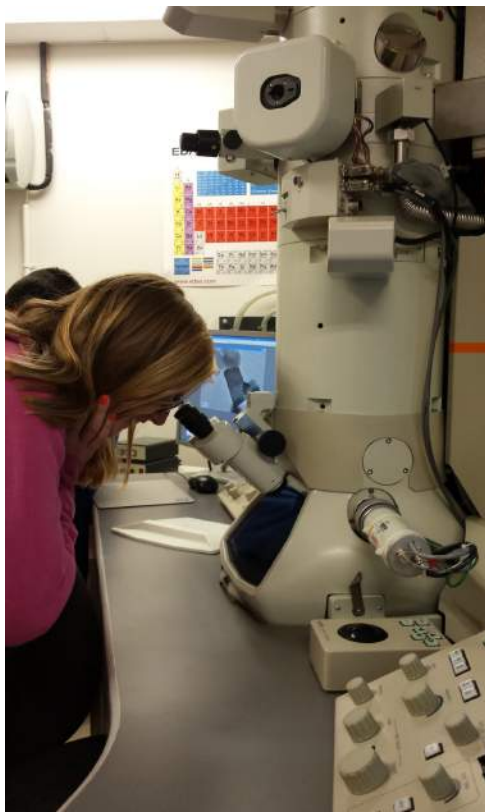
Learning how to identify compounds in the Chemistry lab.



Looking at the fluorescent rocks in the Geology museum.

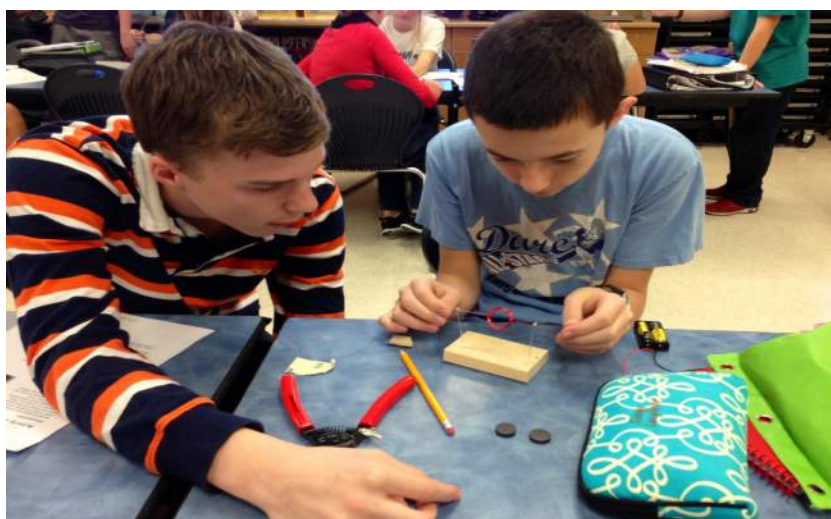


- The 8th graders have been learning the “Magic of Electronics” this past month. We have built our own working DC motors and Morse Code machines (electromagnets), and we are currently building circuits utilizing the function of switches, transistors, diodes, resistors, capacitors and motors.



Lena looking through a SEM (Scanning Electron Microscope).

- We have also started to design and build our VEX robotic problem solving ideas. Students were given a problem and had to design a way to solve it by designing, building, and programming a VEX robotic system. We will revisit this project in the coming months.
- This year the 8th graders will be learning about American History, and we have already written our first big Language Arts/Social Studies paper of the year.
- The students have been working hard setting up the new committee, Flight Club, which will handle all of the extra-curricular projects for our Flight and Space Unit such as the weather balloon launch next Spring. They have also been busy organizing Jr. STEM for this coming year. Jr. STEM is an after-school program designed to introduce STEM concepts and projects to 6th graders. Many of our current 7th grade students were participants of Jr. STEM last year.



Field Trip Photos



Kyle and Zach look like natural scientists in the X-ray lab.



10,000 year old meteorite.



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In front of the Butler Art Museum.

