



Austintown Middle School

STEM Newsletter



May 2017

Calendar

Wed. May 31st- Last day of school for students

Wed. June 21- State house recognition for Soap Box Derby

Thurs. June 15, 22, 29- STEM students in Fitch lab 1-4 pm!

Thurs. July 6, 13, 20, 27- STEM students in Fitch lab 1-4 pm!

Thurs. Aug. 3, 10- STEM students in Fitch lab 1-4 pm!

Mon. Aug. 28th- First day of school for students



8th grade students used skills and safety to fill the weather balloon with helium on May 10th. It was a beautiful launch!

Hello Everyone,

It would be an understatement to say this has been an action-packed and exciting month. The fifth annual STEM Showcase was held on May 4th, with many students and families attending to learn about all the engaging STEM activities done throughout the year. On May 8th, the students visited the Cleveland Museum of Natural History and learned about the tardigrade, a tiny creature that is thought to be able to survive outside of Earth. On May 10th, students launched a weather balloon into the stratosphere recording its altitude, pressure and temperature along its journey. Students built and raced in the Cleveland Soap Box Derby on April 29th and took home 1st thru 6th place in the super stock division and 1st place in the stock division. On May 20th, students competed against over 100 super stock cars in the STEM Gravity Racing Challenge in Akron at Derby Downs. Two cars finished in the top eight and 5 in the top 16. Not the domination we are used to, but still a very good showing. Students finished out the year with a sense of accomplishment and pride having completed a rigorous year of STEM curriculum and we are proud of all their success and growth this year.



All students raced down the track in a derby car on the field trip on May 16th to Derby Downs. To access photos of each student going down the track and all other photos from the year [click here](#).



Julia was taking her learning to new heights while holding the weather balloon on May 10. Don't let go!



The view from 105,000 feet was breathtaking, pictured above is our 3D printed rocket suspended above the world! In the words of Julia, "we once again have taken our learning to new heights!"

APPLY NOW

Applications for the Fitch STEM Program are being accepted for the 2017-2018 school year. Click on the link to access the application and read all the monthly newsletters from this past school year. Seats are limited.

[Fitch STEM Application Link](#)



The Chasers, are pictured above with the recovered balloon.



Ryan and Joey were dressed to impress at the STEM Showcase on May 4th. Students conducted themselves with pride and professionalism while showcasing their projects from this year.



The Falcon football field was full of flying machines during the weather balloon launch on May 10th. Fitch STEM students and alumni came with their own drones to collect aerial footage of the launch.



7th graders dissected a sheep brain investigating the similarities and differences between sheep and humans as part of the *Medical Detectives* unit.



A student drone captured a bird's eye view of the weather balloon launch.



Mr. Terrigno poses with his crew of all female Soap Box Derby car drivers. Girl power!



Mr. Terrigno witnessed nothing but love at the STEM Showcase on May 4th for his countless hours of support for assisting students with the Soap Box Derby.



Nathan "Airman" Spalding, STEM alum, came to the weather balloon launch with his own drone. He was inspired years ago from his own STEM experience to start his own business taking aerial photos using drones for real estate companies. He recently got accepted to an aviation school in Florida. Good luck Nathan!



Flames of Fury

STEM



Science*Technology*Engineering*Math

STEM rosters have been finalized for the 2017-2018 school year. An email was sent home regarding acceptance for next year. Students participating next year will get an email in early August listing materials needed for class.



Team Strike



Mia and Aliva were all smiles eating Strickland's Famous Frozen Custard after the field trip to Derby Downs on May 16th.



Cobalt Comets



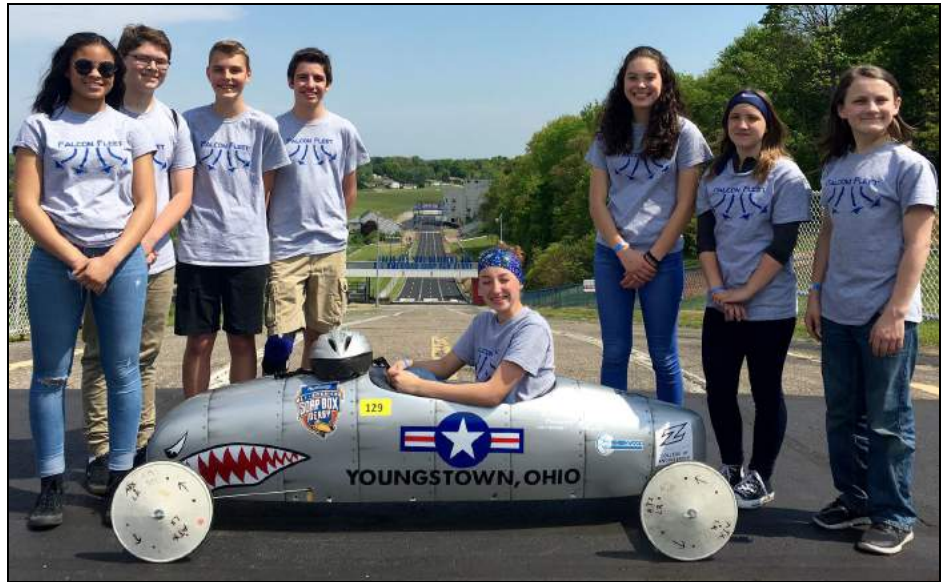
Isabella, Bella, and Sarah were dressed in their Sunday best while explaining the Soap Box Derby and representing the STEM Program the night of the showcase.



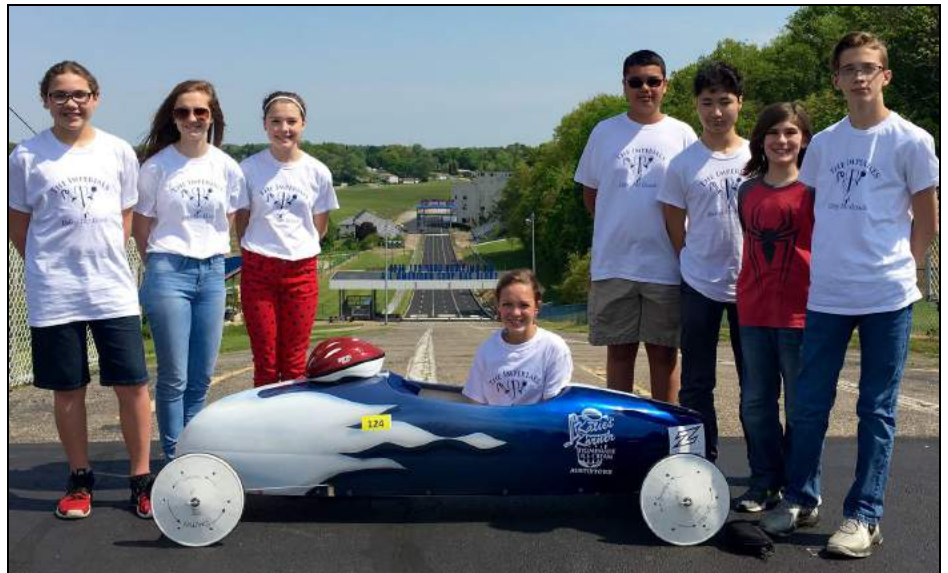
Rocky Road



STEM alum, Tyler and Dante (top) Carissa, Payton, and Kyle (below) came to the STEM Showcase to support their younger colleagues. Once a STEM student, always a STEM student.



Falcon Fleet



The Imperials



Matthew was on display as a perfect *homo sapien* specimen at the Cleveland Museum of Natural History on May 8th.



It seemed like a *small world* at the Cleveland Museum of Natural History on May 8th.



All students got to race down the track at Derby Downs in Akron on May 16th. It was a beautiful day at Derby Downs.

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Austintown Neighbors

« Older Stories

STEM students showcase projects

12:00 a.m. Fri: Austintown Middle School hosted the fifth annual STEM Showcase on May 4.

Cally and Gabby were all smiles during the STEM Showcase.

7th Grade

- ★ In math, students finished off the year by analyzing data and graphs in the unit, *Samples and Populations*. Students used collections of data to find mean, median mode, range, mean absolute deviation, and quartiles.
- ★ Students finished *The Boy Who Harnessed the Wind* based from a true story, it chronicles the story of a boy in Africa who created a windmill from spare parts and provided his town with electricity.
- ★ Students used automation and building skills learned earlier this year to build various robots, such as a Clawbot, Robot and Squarebot. These may be displayed this summer at events such as the Canfield Fair. The class also completed the Medical Detectives unit, which included diagnosing illnesses and diseases, a sheep brain dissection, and a crime scene investigation.

Austintown students track weather balloon after launch

The balloon climbed 109,000 feet in the air before it came tumbling down in Pennsylvania



By Alex George
Published May 22, 2017, 11:34 am | Updated May 22, 2017, 9:40 pm

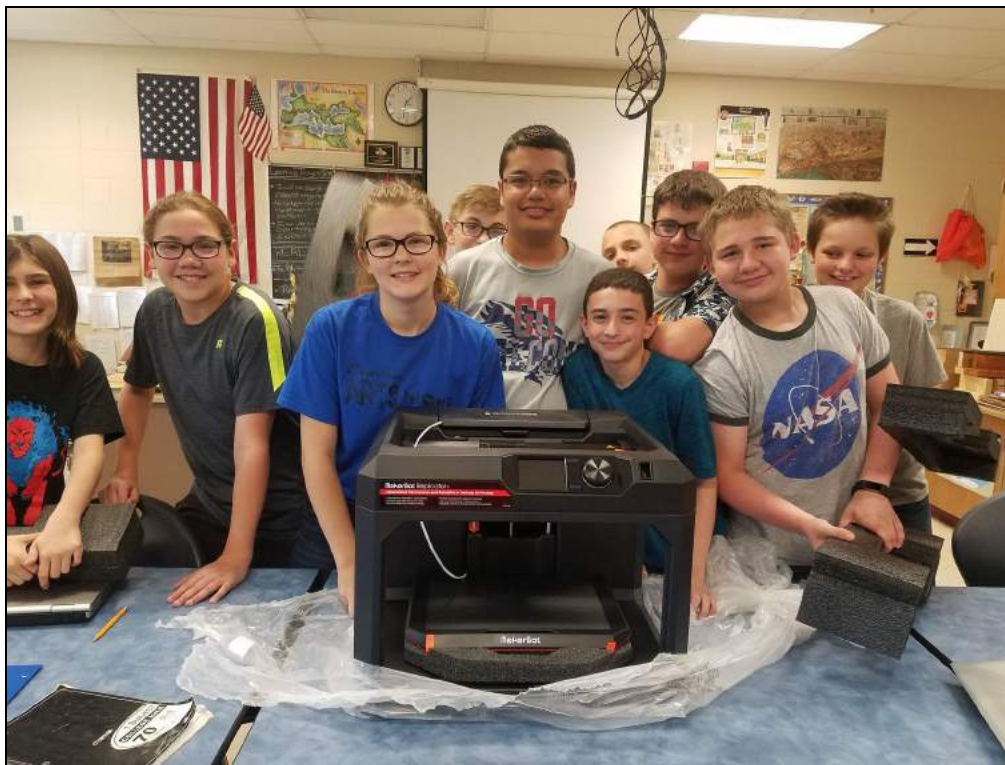


[WKBN Weather Balloon Video Clip](#)

Click on the link to see the WKBN news clip documenting the tracking of the weather balloon on May 10th.



Keeping STEM traditions alive! Ms. Chine has been growing her aloe plants all year to be gifted to the students who grew the most while participating in the STEM program. We have grown more than 30 plants over the course of five years from just one “mother” plant. What a perfect metaphor for the growth of the STEM Program. Don’t forget to nurture your plants as the years go on...



Announcing the newest addition to the AMS STEM Program weighing 45 lbs. 4 oz. and 18 in. long the Makerbot Replicator Plus is going to revolutionize our 3D printing capabilities.

8th Grade

- ★ Students will conclude the Flight & Space unit by launching rockets out on the football field. They will be able to determine how high the rockets reached using altimeters that measure the angle between the rocket and the ground. Students came up with some interesting rocket designs using the Newton’s Laws and the Four Forces of Flight as they tested on NASA’s rocket simulation software.
- ★ The students also finished their final novel of the year, *Animal Farm* and completed a literary analysis of the book. Accelerated readers finished *Rocket Boys*, based from a true story it is a memoir of Homer Hickam, a boy in a rural, coal-mining town who built his own rocket qualifying him to enter the state Science fair. Later, he grew up to work for NASA.



You only have to know one thing:
You can learn anything



Our STEM GRC Champion teams from Akron last May will be honored and receive awards and accommodations for our school at the Statehouse in Columbus on May 20th. The students will get to talk with senators, visit a senate session, and tour the Statehouse and Governor's office. They are allowed to bring their parents as well. Our school will be recognized in a live session of congress while we watch. It's a really big deal, and we earned it by winning 1st place in both Stock and Super Stock Divisions last May out of over 160 teams from all over the world!

**2016 STEM Gravity Racing Challenge Champion
Teams:**

State House 2016 GRC Champion Teams

June 21st, 2017

Ohio State House

1 Capitol Square

Columbus, OH 43215

Check-in 9:00-9:45 am.

Super Stock Team

Julia Marscio
Gabriella Baltes
Emma Bartlett
Candice Miller
Joey Hughes
Randy McCloskey
Logan Skica
Mia West

Stock Team

Chase Gabrick
Robbie Berarducci
Lena Biggs
Tanner Craig
Tyler Ludt
Sam Maguire
Kyle Ramhoff
Celina Santiago
J.C. Wack



Location: The Ohio Statehouse
1 Capitol Square Columbus, Ohio 43215

Parking
Columbus City Center Parking Facility
55 E. Rich St. Columbus, Ohio

Luncheon Location
Golden Corral
4750 E Main St, Whitehall, OH 43213
(614) 864-3700

Luncheon cost:
Children ages 4-8 (drink included) \$ 6.99
Children ages 9-12 (drink included) \$ 7.99
Seniors (drink included) \$ 8.37
Adults (drink not included) \$ 8.99
Cost of drinks for adults \$ 1.99

For information about the Ohio State House,
please visit: <http://www.ohiostatehouse.org>

For driving directions to the Ohio State House,
please visit: <http://www.ohiostatehouse.org/about/general-information/directions>

Ohio State House Recognition Day For 2016 Ohio Soap Box Derby Local & Rally Champions, National Super Kids Champions, and Gravity Racing Challenge School STEM Team Champions

Dear Champions, Families, Race Directors, and Friends,

Please join us as we recognize and congratulate the Ohio Local & Rally Champions, the Gravity Racing Challenge Champions, and the National Super Kids Soap Box Derby Champions at a special recognition day at the Ohio State House.

We would like to thank State Senator Frank LaRose and his office staff for all their efforts in coordinating the events for our Champions' memorable day. We hope you are able to join us. Please let me know if you have any questions.

Linda Hubbell
Education Director
International Soap Box Derby

(P) 740.817.0345
Email: hubbell@johnstown.net

Ohio Soap Box Derby Champions Recognition Day Agenda

Date: June 21, 2017

9:15 AM- 9:55 AM	Check-In (side hall off of Atrium)
10:00 AM-10:45 AM	Welcoming, meet and greet with State Legislatures; Governor's Commendation presented by Senator LaRose to each Champ (Atrium)
10:50 AM	Group Photo (Atrium)
11:30 AM-12:00 PM	House Session Recognition
12:00PM -1:15 PM	State House Tours (45 minute tours—3 groups)
1:30 PM	Senate Session Recognition
2:00 PM	Leave State House for Golden Corral Luncheon & Awards Presentation

*Tentative schedule subject to change.

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[Austintown STEM Website](#)

[AMS STEM Student Website](#)

