

Parent Newsletter

MONROEVILLE HIGH SCHOOL

Winter News & Information

January, 2024

STEM TAKES FLIGHT at MHS

Our STEM lab strives to be a student-centered 21st century learning classroom that encourages students to become critical thinkers and problem solvers by providing opportunities for students to improve their collaboration and communication skills, by fostering creativity, and by building a positive classroom learning environment that guides our students down a path towards becoming independent lifelong learners. Here's a look at what's happening in STEM.

In our introduction to Video Game Design class, students are coding original video games using JavaScript with the Code.org platform. They start by conceptualizing and storyboarding game ideas, then bring those visions to life by coding gameplay logic, user interface, graphics, sounds and more. By taking an idea from initial concept to a playable product available online, students get firsthand experience with the game development cycle while learning key programming principles like variables, conditionals, functions, and loops. This develops their design thinking abilities, problem solving skills, and tenacity through the iteration process. Our student game developers really enjoy completing their video games and seeing others playtesting the end product.

Our Introduction to Engineering students in our 1st semester class submitted a proposal to the nationwide NASA TechRise STEM competition. Their project is titled Project STROBIE, which stands for Stratospheric Tracking of Ozone, Biospheric greenhouse gas emissions, and Imagery Experiment.

The project is focused on answering the question of; How has the composition of the stratosphere changed over the last 10 years, and if it has, is there any noticeable impact on agricultural production? Only 60 projects nationwide will be chosen as winners to move forward into the build phase. If our project is chosen, NASA TechRise will send us a check to purchase the materials to build our experiment, and our students will build a suite of sensors made out of microcontrollers and sensors that will weigh less than 2 pounds and fit in a 4 inch by 4 inch by 8 inch flight box. In addition, our students will continue to find relevant environmental data and information to help with our overall experiment.

Our Junior High School and High School robotics program has really taken off this year. Our students have been hard at work designing, building and programming robots to complete complex tasks. During robotics classes students are designing robots, researching ideas for new mechanisms, testing robots, and making improvements. Several of our students are competing at the regional level as they try to earn a spot to the state championship.

Our STEM program has also received two grants so far this year. We received \$5000 from the Ohio STEM Learning Network to purchase sensor technology to be used in scientific investigations. We also received \$1000 from the Ohio Space Grant Consortium to purchase material for our robotics program.

As evidenced across all of these programs, our STEM initiatives equip students with the real-

world knowledge, skills, and mindsets necessary for the innovative careers of the future. Whether coding games, designing stratospheric experiments, building robots, or collaborating on solutions to sustainability challenges, students repeatedly rise to the occasion. They hone critical abilities like problem-solving, creativity, communication, and critical thinking while fueling their passion in science, tech, engineering and math. Even more, they gain confidence in their talents and potential to make a difference.

Important Upcoming Dates

Jan. 22nd – Parent Conferences
PK-8 Parent (All day)
9-12 (Evening only)
Jan. 23rd – NHS Blood Drive
Feb. 2nd – Coming Home Ass'y
Feb. 3rd – Hall of Fame Dinner
Feb. 14th – 3rd Quarter Interims
Feb. 12th – BOE Meeting
Feb. 16th – Staff PD Day
Feb. 19th – Presidents' Day
Mar. 12th – ACT Administration
Mar. 15th – 3rd Quarter Ends
Mar. 17th – NHS Inductions
Mar. 28th – Staff PD Day
Mar. 29th – Spring Break begins
Apr. 8th – Eclipse (No School)



SENIORS

Seniors - Baby pictures and candids for the graduation slideshow were due by Friday, January 19th. Please submit those pictures to Ms. Replogle ASAP either in an envelope (with your name on each image) via the high school office, or digitally to her email at the following address: lreplogle@monroevilleschools.org. If submitting digital images, please make sure the images are a high - resolution file.

Seniors - Holiday Photography will be at MHS on January 25, 2024 from 9:00 -10:00 AM to take the Seniors Only Portraits. This is a make-up day for those who missed the December 7th picture day. These FREE pictures will be used for the yearbook, scholarships, and the Norwalk Reflector Graduation Tabloid published in May. **All seniors**, including those at EHOVE and CCP will need to have a picture taken. Please make arrangements to come to the MAC Community room for a picture during this one hour time slot if you have not been photographed.

ATTN: HIGH SCHOOL STUDENTS - The yearbook order center is now live and ready to take orders for the 2023-2024 High School Yearbooks. You can use the link below. Monroeville's order number is 4131.

<https://www.yearbookordercenter.com/>

PROM 2024

The MHS Prom will be held on Saturday, May 18, 2024. The Grand March will be held at the MHS Auditorium starting at 5:15pm. Prom will be from 6:00-9:00pm and will once again be held at The Village Barn in Monroeville.

JUNIOR CLASS FUNDRAISER

The Junior Calendar Sale will be taking place the whole month of March. The junior class members will be selling calendars February 12th-23rd. Prizes include gift cards from local vendors.