



As part of our District's STEM initiative, teachers in every building are taking advantage of STEM studies to teach intellectual learning-hypothesizing, predicting, and theorizing. Over the past 20 years, STEM education has become increasingly popular as parents and policy-makers realize the critical role it plays in enabling the United States to remain the economic and technological leader of the global marketplace.

In the summer of 2015, Stebbins was approved by the Ohio Department of Education as a STEM Designated School, becoming one of only a handful of schools in Montgomery County to earn the STEM designation. In June of 2016, Mad River Middle became one of three middle schools in the Dayton area to earn their STEM designation. With a STEM designation, Mad River aims to provide and align educational systems to ensure sufficient intellectual, entrepreneurial, and technical talent building for the region's economic needs.

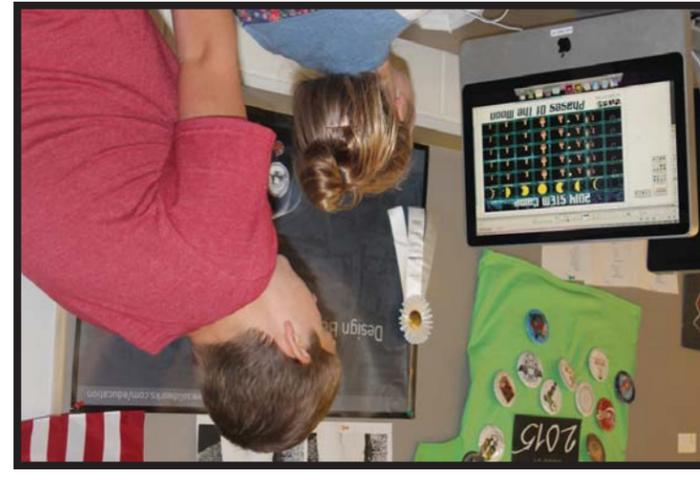
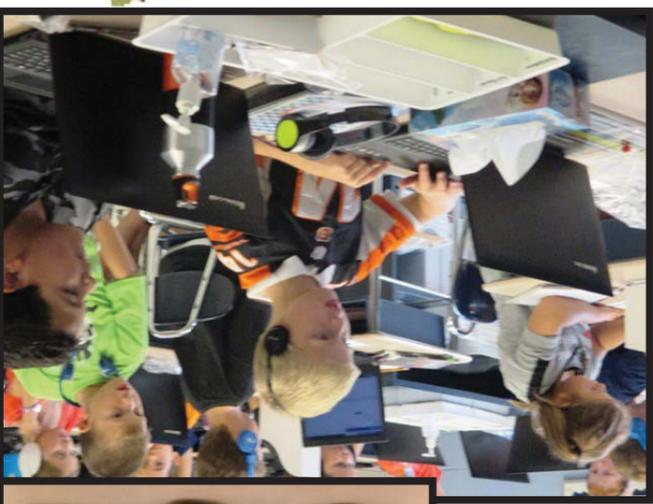
The Mad River School District is proud to offer a strong STEM (Science, Technology, Engineering, and Math) education for all of our students. From preschool to high school, most, if not all of our students are expert-encouraging science, technology, engineering and math in their classrooms. Early on, students are exposed to the United States Air Force Museum where they participate in projects to develop an understanding of the science and mathematics behind flight beginning with the mechanics developed in the Wright Brothers Bicycle Shop.



Students in grades fifth through sixth have an opportunity to participate in the highly engaged STEM focused STARBASE program where they participate in a variety of inquiry based learning experiences designed to increase interest in and knowledge of math, science and technology.



Project Lead the Way gave these students the opportunity to explore fields in the area of engineering. Whether it is a stream study for preschoolers or launching homemade rockets in middle school, the Mad River School District believes in its vision to improve teaching and learning through STEM education. Most importantly, we are confident that we are providing high levels of engagement and an array of learning opportunities for our students to develop critical problem-solving skills and prepare them to succeed in a global 21st century marketplace.



**Additional STEM experiences beyond the classroom include Robotics club, STEM Summer Camp, and Hands-on STEM family events.**

**Partnerships with:**

- Wright State University Aerospace Professional Development Center
- Dayton Area Aerospace, Medical Industry and Manufacturing Companies
- Local business owners
- Sinclair Community College

**21st Century experiences through our hands-on learning approach:**

- STEM School designation for Stebbins STEM High School and pending designation for Mad River Middle School
- Teachers trained in a Nationally Recognized STEM Fellowship Program
- High Quality Professional Development for staff from Dayton Regional STEM Center Coordinator
- Project Based Learning research team consisting of teachers from every building.
- STARBASE Department of Defense program at Spinning Hills Middle School where students participate in a variety of inquiry-based learning experiences designed to increase interest in and knowledge of math, science and technology.
- Mad River Middle students have the opportunity to experience our newest STEM-based classes and a pre-engineering class Project Lead the Way. This is a platform for preparing students for their secondary experiences at Stebbins STEM High School.

