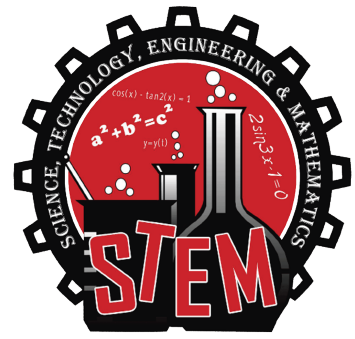


STEM

STEWARTS CREEK MIDDLE SCHOOL

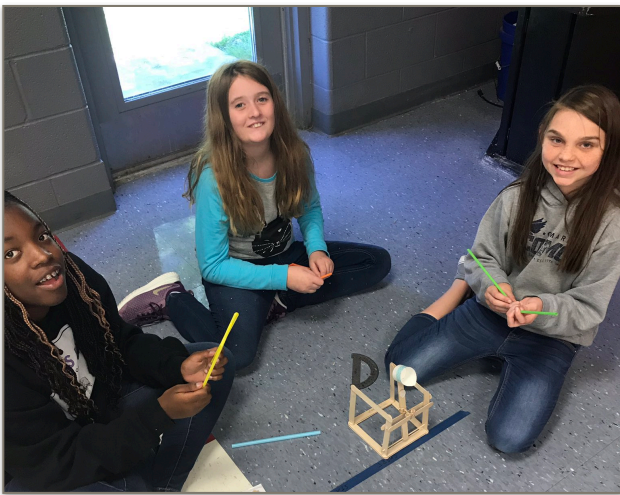


What is STEM?

STEM is a semester long enrichment class for high-achieving students that excel and are interested in the areas of Science, Technology, Engineering, and Math. This class gives these students an opportunity to apply the principles learned in math and science classes to real world problem solving challenges. In STEM, students reinforce what they know and learn new things through hands on activities. They are challenged to use the Engineering Design Process to develop, create, and improve a solution to a simulated scenario.

Equipping Students

Students will have to opportunity to learn real-world skills related to a variety of STEM careers. These skills are introduced, developed, and used throughout a student's time in STEM. Mastery of these will help students have a toolbox applicable real-world skills. Some of these include: CAD, Programming, Problem Solving, Engineering Design, Additive Manufacturing, Group Collaboration, Presentation, Risk Management, & Robotics.



Program Objectives

- Focus on the Engineering Design Process for all challenges.
- Integrate science and math.
- Provide risk-free and mistake-making opportunities.
- Emphasize teamwork and collaborative skills.
- Incorporate the use of current technologies.

Student Assessments

As a project based learning environment, students are assessed on their success through:

- Attitude & Participation
- Project & Lab Reports
- Teamwork & Communication skills
- Challenge completion
- Engineering & Experimental Design



Robotics Team

STEM students are able to join the Stewarts Creek Robotics Team. Each fall, our team competes in the Music City BEST (boosting engineering, science, and technology) Robotics challenge at Lipscomb University. This student-led competition helps students develop a variety of soft skills and technical skills such as engineering, programming, marketing, web design, construction, leadership, and organization.

This past year we won the 1st Place BEST Award (the highest award possible) for our second year in a row. This great showing qualified us to go to the finals at Auburn University where we made it to the top 10 out of over 60 teams.



Who Can Join STEM?

At Stewarts Creek Middle School, the STEM program is designed to enrich and challenge motivated students with an interest in and aptitude for Science and Math. STEM is available to students who meet the following qualifications:

- Maintain an Honor Roll grade point average (all A's & B's) all year.
- Demonstrate good behavior, a solid work ethic, and the ability to work well with others.
- Have a teacher recommendation.
- Score Highly Proficient or better in Science and/or Math (TCAP/TN-READY)

If STEM sounds like the place for you, head to scmstem.com/apply.html to complete the application. You will need a copy of this year's report card showing at least the first three quarters grades (doc, pdf, or jpg/png) to attach. Space is limited and classes will fill up so get your application in ASAP. Applicants will need a teacher recommendation so, reach out to your 5th grade teacher and let them know you've applied.

I'm looking forward to meeting our future students!

Kevin Welch

Stewarts Creek Middle School STEM

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