



Green Magnet Academy

An Elementary STEAM Program

Science, Technology, Engineering, Arts, and Mathematics

One Community. One Vision. Every Student.

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Knox County
MAGNET SCHOOLS
"Our Schools of Choice"



Virtual Reality Technologies

Why STEAM?

Everything we do is based on the belief that students learn best when challenged with an inquiry-based model of instruction and learning in real world context. We believe optimal learning occurs when students are led through engaging, interdisciplinary units of study that prepare them for success in today's rapidly changing world.

Our STEAM program is a pathway in which children obtain the skills needed to become future leaders and innovators. While supporting the core academic competencies, the STEAM program furthers students to be:

- Logical thinkers
- Self-Directed learners
- Problem solvers
- Technologically literate



What is STEAM?

STEAM is an acronym for Science, Technology, Engineering, the Arts, and Mathematics. At Green Magnet Academy these subjects are not taught in isolation. Instead, they are woven into the core curriculum allowing students to apply their knowledge and gain experience with these skills.

In addition to the academic curriculum, there is a strong focus on the 21st Century Skills:

- Creativity
- Collaboration
- Communication
- Critical Thinking

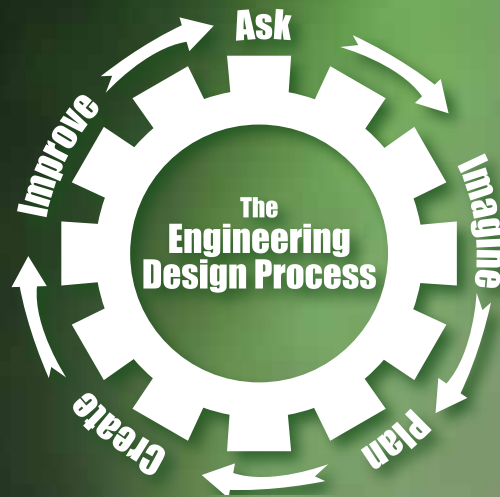
How Does STEAM Look?

Learning Environment

GMA offers a learning environment with a variety of learning experiences, instructional approaches, and academic support. Strategies are designed to address the distinct learning needs, interests, aspirations, and backgrounds of individual students.

Design Lab

The Design Lab is devoted solely to students acting as engineers to generate solutions and create prototypes to problem solve. Using the *Engineering is Elementary* program, students work in collaborative groups to design, create, and improve possible solutions to real world problems. The Engineering Design Process (EDP) is the template used to guide the students through these tasks:



STEAM Studies

A STEAM Study is more than just a field trip. It is an opportunity for students to visit local businesses and see the application of each of the silos of STEAM, tying the real world to what they are learning and practicing at GMA.

STEAM Studies also expose students to job and career opportunities in their community.

Community School

The Community Schools Initiative is a strategy for using public schools as a hub for organizing community resources to improve neighborhood health and safety and student academic success.

The Community School program works hand in hand with the STEAM magnet programming to provide a high quality after school program. Clubs and activities include:

- STEM Scouts
- Robotics Clubs
- Dance
- Music
- Tutoring
- Code
- First Lego League

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