



MOORE MAGNET
ELEMENTARY SCHOOL

STEM SCHOOL

CLARKVILLE-MONTGOMERY COUNTY SCHOOL SYSTEM

Learn more about our STEM-related learning at mooremagnetelem.cmcss.net
or on Facebook @MooreMagnetElementary.

A CMCSS School of Choice

WHO WE ARE

The **MISSION** of Moore Magnet is to empower students through real-world learning experiences to make valuable contributions to their community.

The **VISION** of Moore Magnet is to prepare students to be innovative and creative thinkers of the 21st century.



MOORE'S STAFF

The staff at Moore have received focused and comprehensive training in STEM. Moore's administration team and academic coaches have received STEM leadership training from Tennessee's STEM Innovation Network (TSIN), while Moore's teachers have attended TSIN conferences to receive STEM professional development. Several of Moore's staff members serve on cohorts that are leading STEM education for the state of Tennessee.

MOORE MAGNET STEM SCHOOL OFFERS

- **STEM** integration kindergarten through fifth grade
- Cross grade level **student collaboration** on future **sustainability challenges**
- **Technology**: one-to-one laptops in kindergarten through fifth grade, iPads, drones, photography, and robotics
- **Outdoor classroom, garden, and pond**
- **Makerspace**
- Special area rotations that include **engineering and technology**
- **Partnerships** with APSU and other local businesses and organizations
- **After-school clubs**: art, drama, fitness, journalism, leadership, robotics, and science lab
- Before and after-school care through the **YMCA Fun Company**



STEM INTEGRATION

STEM, which stands for science, technology, engineering and math, is embedded across the curriculum at Moore. Students apply the knowledge they gain across the curriculum to solve challenges aligned with real-world problems tied to local community issues. Moore was one of the first schools in the state to receive the prestigious Tennessee STEM School Designation. Additionally, Moore was the first Montgomery County Green Certified School.

ENGINEERING DESIGN PROCESS

Moore incorporates the Engineering Design Process (EDP) in teaching and learning. The EDP is used in every science lesson with students solving an essential question utilizing the content gained through the science standards and curriculum. The science standards are the scaffolding activities that provide the students the knowledge and understanding for the students to solve the challenge.

ARTS

The visual and performing arts are important at Moore Magnet, with classes and extracurricular offerings available through after-school clubs. Students have the opportunity to participate in art and drama clubs. Special area teachers use the EDP in their classrooms and integrate the arts into STEM.

ROBOTICS

Through robotics, students use creativity skills and engage in problem-solving. Students use code to write programs for the operation of the robots. They also participate in local, state, and national robotics competitions to demonstrate their coding and robotics skills. Teachers focus on inquiry-based learning to integrate robotics into as many subject areas as possible, while also making curriculum connections.

SPECIAL ACTIVITIES

Special activities throughout the year include STEM expos, solar-powered cars competitions, and robotics competitions. STEM is also integrated during each family event night. Partnerships with APSU and other local businesses allow students to explore a variety of career opportunities.

OUTDOOR CLASSROOM, GARDEN, AND POND

The outdoor classroom, garden, and pond provide students with the opportunity to apply their knowledge of math, science, and other content areas in the natural environment while focusing on sustainability.