

Recognitions at MCAA



- ◆ COGNIA STEM Certified
 - ◆ Georgia STEM Certified
 - ◆ National Blue Ribbon School
 - ◆ Georgia School of Excellence
- ◆ Platinum Award for Student Success
- ◆ PTSA in Good Standing and Principal who successfully engages and supports the PTSA

Unique Opportunities at MCAA

- ◆ Annual STEAM Showcase Nights
 - ◆ STEAM House Challenges
- ◆ Advanced Curriculum Instruction
 - ◆ STEAM Partnerships
- ◆ Collaboration with feeder schools
 - ◆ Annual Evening of the Arts
 - ◆ Drama Club
 - ◆ Math Olympiad Competition
- ◆ Cobb Technology Fair Participation
- ◆ Odyssey of the Mind Competition
 - ◆ Lego-Robotics & Reading Bowl
 - ◆ Morning Clubs for all interests
 - ◆ Virtual Reality Education
- ◆ Arts Integration with Arts Now partnership

Advanced Academics, Resources, and Teacher Preparedness

- ◆ All staff participate in safety plan training and stop the bleed training to ensure all students and staff are safe at all times.
- ◆ 100% of teachers are gifted certified and participate in staff development for Arts Integration, Instructional Planning, and Social-Emotional Learning.
- ◆ Digital learning is a priority with classroom teachers collaborating with a full-time instructor focused on real-world technology implementation.
- ◆ Science Labs are dedicated to hands-on learning; weekly STEAM challenges and sustainable gardens are utilized to engage students.
- ◆ MILE and Advanced Content in Reading, Writing, and Math is offered to qualifying students. All students participate in Math Movement.
- ◆ STEAM Partners (Six Flags/White Water, the Georgia Aquarium, StarBase—US Dept. of Defense, McDonald's, the Georgia Farm Bureau, et. Al.) help enrich lessons.
- ◆ Technology is 1:1 and monitored through Go Guardian.

MARIETTA CENTER FOR ADVANCED ACADEMICS



*An Innovative Model of
STEAM Education*

2022-2023

What is STEAM Education?

STEAM is an acronym for Science, Technology, Engineering, Arts and Mathematics. STEAM education combines these disciplines in an integrated, problem-based approach to teaching and learning with an emphasis on critical thinking, communication, collaboration, and creativity. Simply put, STEAM is an innovative way of teaching that allows students to show what they know in a variety of ways. A STEAM education will help students become problem solvers, innovators, communicators, and logical thinkers.

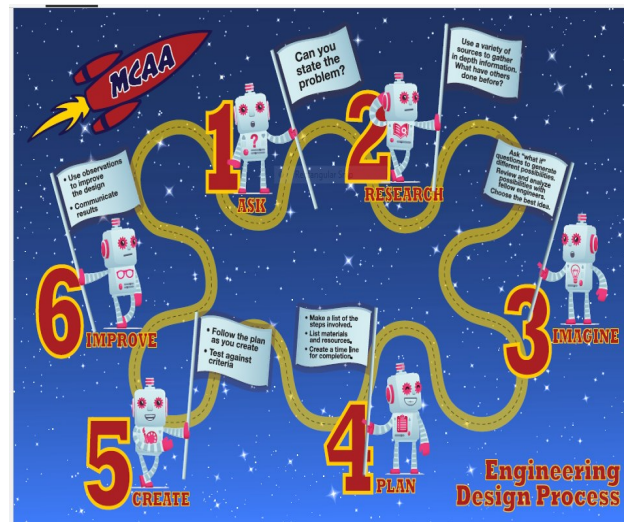
STEAM Time at MCAA

- ◆ Teachers will teach STEAM consistently throughout the week — but the majority of STEAM occurs on Fridays.
- ◆ Lessons will integrate the arts, science, technology, math, and other subjects with the engineering process.
- ◆ STEAM will be supplemented through Science Labs, Arts Integration, Professionals as guest speakers, and field trips.
- ◆ Students will visit the gardens and outdoor learning areas for enriched activities.

MCAA's

Engineering Design Process

Using the Engineering Design Process, students experience a variety of design briefs that are called “challenges”. During the process, students define the problem, conduct background research, imagine, plan, create, test, improve, and share solutions to real world problems.



Above the Line at MCAA

The **VISION** of MCAA is to be an innovative model of STEAM education.

Our **MISSION** is to provide all students a safe and positive culture where students apply collaboration, communication, critical thinking, and creativity as members of a diverse learning community.

MCAA Values: Communication and collaboration with all stakeholders; a safe environment that is engaging and challenging; a positive culture that supports and affirms our diverse community; unique and innovative learning opportunities; being ready, responsible, and respectful.

Parent Involvement

- ◆ Schooling Committee
- ◆ PTSA School and Classroom Activities
- ◆ STEAM Steering & Partner Committees
 - ◆ School Governance Team (SGT)
- ◆ Marietta City Schools MCAA Endowment