



Computational Thinking

Students explore decomposition, pattern recognition, abstraction, and algorithms using Beebots, Dash Robots, Spheros, Octostudio, and CoderZ.

Robotics Integration

Students take an active role in learning using Lego Education and Vex Robotics to solve authentic problems.

Creativity & Innovation

Students create a custom designed 3D printed or laser cut project employing Makerbot Sketch and Glowforge.

Project-Based Learning

Students collect and analyze data, use technology ethically and effectively, and deepen their understanding of technology systems.

The 4Cs and Real World Problems

Communication, collaboration, critical thinking, and creativity are embedded across all curriculum. Engineering Design Challenges enable students to work together while solving real-world problems with career connections.

Math, Science, Technology Magnet

At MST, student-centered experiences empower learners to take ownership of their educational journey through voice, choice, and agency. Instruction is designed to help students set goals, solve problems, and monitor progress with digital feedback.

ABOUT MST

The Math, Science, Technology Magnet integrates rigorous core academics with the Engineering Design Process, providing students with a dynamic framework to view the world. This empowers young learners to discover innovative solutions that enhance their lives and positively impact others.

MST Magnet Elementary is a one-of-a-kind school, uniquely positioned near the renowned UT Dallas engineering program and strengthened by partnerships with organizations such as RTX. Through authentic STEM experiences, industry connections, and the Engineering Design Process, we inspire students to dream boldly, pursue their aspirations, and build the academic foundation and self-discipline needed for future success. White Tigers leave MST prepared to examine their world, solve meaningful problems, and confidently explore their futures.



OUR SUCCESS

MST's culture of excellence is reflected in both student achievement and national recognition. MST earned an A accountability rating with all six TEA distinctions and is a Nationally Certified Magnet School through Magnet Schools of America, recognizing the strength, equity, innovation, and impact of our magnet program. MST is also an Apple Distinguished School, celebrating our innovative use of technology to transform teaching and learning.

As an AVID Elementary Showcase School currently pursuing AVID Demonstration School designation, MST continues to strengthen a schoolwide college- and career-going culture through WICOR strategies, focused note-taking, student goal setting, organization, collaboration, and student agency. Together, these distinctions reflect a learning community committed not simply to implementing exceptional programs, but to creating an integrated model of excellence for every student.

MAGNET PROGRAM INCLUDES GRADES K-6.

469-593-7300 | schools.risd.org/MSTMagnet | 450 Abrams Rd., Richardson, TX 75081

 @MSTMAGNET  @mstmagnet  @mstmagnet

LEARNING EXPERIENCES AT THE MATH, SCIENCE, TECHNOLOGY MAGNET

PROJECT-BASED LEARNING

Authentic project-based learning allows MST students to apply content knowledge to meaningful challenges. Students use the Engineering Design Process—Ask, Imagine,

Plan, Create, Test, and Improve—to investigate problems, collaborate, create solutions, reflect, and iterate. Beginning in the primary grades and growing in complexity through sixth grade, these experiences intentionally connect academic standards with STEM, careers, community partnerships, and student voice.



STEM + ENGINEERING

MST's nationally recognized magnet program places engineering, STEM integration, and authentic technology experiences at the center of learning. As a Nationally Certified Magnet School, Apple Distinguished School, Nationally Certified STEM Campus, and AVID Elementary Showcase School, MST develops communication, collaboration, creativity, critical thinking, and student agency across disciplines. Expanded resources such as robotics kits, 3D printers, and advanced coding programs ensure MST students have access to cutting-edge technology. Students explore coding and design in the campus STEM lab using tools like Swift Playground, Octostudio, Lego, Vex Robotics, and Keynote for app prototyping and hands-on learning.

STUDENT

LEADERSHIP AND AGENCY

Leadership and agency are intentionally developed throughout the MST experience. Students set goals, monitor their learning, collaborate with peers, communicate their thinking, and increasingly take ownership of how they demonstrate understanding. AVID Ambassadors and student leadership opportunities provide authentic opportunities for students to represent their school, mentor others, and lead our college- and career-going culture.

Through AVID strategies, student portfolios, collaborative learning, technology leadership, and authentic audiences, students learn that their voice matters and that they have the skills to influence their own future.

OUR NEXT CHAPTER

National recognition is not the finish line for MST—it is the foundation for our next chapter. We are deepening the integration of the Engineering Design Process, project-based learning, AVID strategies, proficiency scales, student goal setting, and digital portfolios across every grade level.

As MST progresses through the AVID Demonstration School process, we are creating opportunities for students to articulate what and why they are learning and how they know they are growing.

Future work includes expanded interdisciplinary PBL, student-led conferences, TED-Ed experiences, community showcases, and student capstone experiences.

