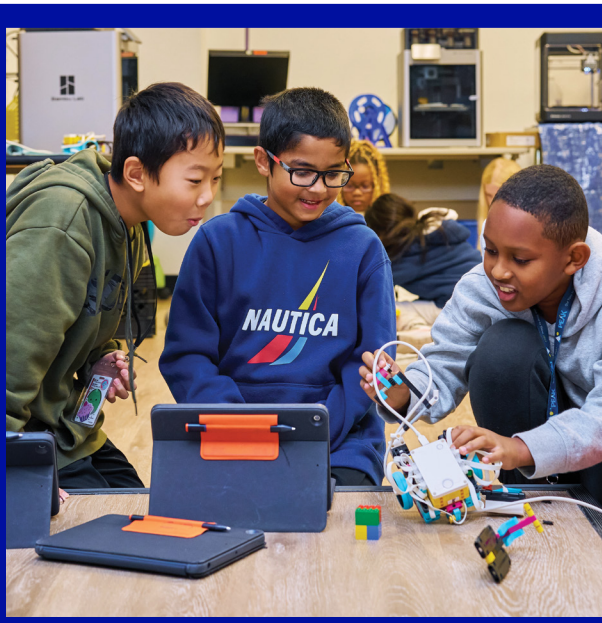
Math, Science, Technology Magnet

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 in RISD, uniquely positioned near the renowned UT Dallas engineering program and partnered with industry leader Texas Instruments. We inspire students to dream boldly, instill the confidence and agency to pursue their aspirations, and equip them with the academic foundation and self-discipline to succeed. White Tigers transition to junior high with the skills to examine their world and explore their futures with confidence. We envision a future where our MST engineers are thriving at, or even leading, prestigious institutions like UT Dallas, making their mark on the world.

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 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. Semiannual Design Days enable students to work together while solving real-world problems with career connections.

OUR SUCCESS

MST has a strong foundation of excellence, reflected in our consistent "A" accountability rating and multiple TEA distinctions. In 2024, MST hosted multiple AVID Showcase visits, where educators from across the region observed our students. The integration of advanced technology, such as *Tinkercad*, the *Everyone Can Code* curriculum, and robotics lessons at every grade level, enhances students' critical thinking and creativity. MST's innovative practices have increased engagement, with 95 percent of students reporting high satisfaction with their technology-enabled education. MST's teachers personalize learning through digital feedback and scaffolded instruction, ensuring our students' future success.

Lauren Bolack, Principal **Willette Armstrong, Assistant Principal**

MAGNET PROGRAM INCLUDES GRADES K-6.

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LEARNING EXPERIENCES AT THE MATH, SCIENCE, TECHNOLOGY MAGNET

PROBLEM-BASED LEARNING

Over the past three years, MST has strengthened its focus on authentic learning experiences both in the STEM lab and in the classroom. Students engage deeply with coding and computational thinking, leveraging tools like *Swift Playground*, *CoderZ*, and *MagicSchoolAI*. Problem-based learning experiences are at the heart of our instruction, enabling students to tackle real-world challenges and develop practical solutions.

LEADERSHIP

Our commitment to fostering leadership and agency is exemplified by our Tech Team, where a team of upper-grade students coach second graders in creating products that apply their learning. Apps such as *iMovie*, *Clips*, *Keynote*, *Numbers*, and *AR Makr* provide creative platforms for students to apply concepts and teach peers.

MST also emphasizes student agency, allowing learners to choose how and where they work, whether collaborating in hallways, recording booths, or the outdoor garden.

STEM ENGINEERING

MST is committed to STEM integration and authentic technology experiences. As a Nationally Certified STEM Campus (2020) and AVID Showcase School (2024), we excel in preparing students with 21st-century skills of communication, collaboration, creativity, and critical thinking. Expanded resources such as robotics kits, additional 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.

WHAT'S NEXT?

MST is dedicated to continuous growth and a culture of innovation. In the coming years, the Engineering Design Process will be fully integrated into all classrooms, empowering students to approach challenges systematically and creatively. The campus will expand its outdoor learning spaces, providing students with additional opportunities for hands-on, authentic learning in nature. In the STEM labs, the introduction of TedEd will offer a unique avenue for collaboration, strategic thinking, and digital skill-building.

MATH, SCIENCE, TECHNOLOGY MAGNET
ENGINEERING CURIOSITY
EMPOWERING INNOVATION
EST. 1995