Support early learning

All young children require an environment supportive of early learning and development of skills that will enable them to succeed in school. Supporting young children in STEM also includes providing opportunities to introduce math and science concepts through fun, play-based activities.

Inspire interest

Interest in STEM can be nurtured early. Hands-on and experiential learning opportunities encourage curiosity and confidence in understanding and applying STEM skills to everyday life. Providing both in- and out-of-school activities in elementary and middle school can build lifelong interest in STEM.

Make connections and build foundations

During middle school, students should have meaningful experiences that inspire, build connections, and help them see themselves in STEM. Students also need to build a solid academic foundation to succeed in high school math and science coursework, as well as the ability to apply STEM knowledge and skills to solving real-world problems.

Excite, challenge, and prepare

Whether they plan to pursue college or a workforce training program, all students require a rigorous core math program in high school to prepare for their future. More advanced math and science coursework can provide a gateway to achievement and foster meaningful connections in STEM.

Work, advance, and innovate

STEM-literate workers are critical to Minnesota’s knowledge-based workforce. Our continued advancement as a state requires workers with the ability to innovate, solve complex challenges, and flourish in an environment with rapidly changing technology.

GOAL

Minnesota has a thriving, innovative, equitable STEM workforce and economy.

Minnesota STEM cradle-to-career logic model & key measures