



STEMworks – STEM Advisory Council’s Approved STEM Program December 2018

ST MATH

PROGRAM OVERVIEW

ST Math® is a visual instructional program that builds a deep conceptual understanding of math through rigorous learning and creative problem solving. The program incorporates the latest research in learning and the brain, promoting mastery-based learning and mathematical understanding. ST Math deeply engages, motivates, and challenges students toward higher achievement by teaching the foundational concepts visually, then connects the ideas to the symbols and language. Through visual learning, students are better equipped to tackle unfamiliar math problems, recognize patterns, and build conceptual understanding. Without language barriers, the program is accessible to all students, regardless of skill level or language background. Over 1.2 million students, 56,000 teachers and 4,300+ schools across the country are realizing the benefits of ST Math.

TARGET GRADES PreK – 8th grade

A UNIQUE OR SPECIAL FOCUS OF THE PROGRAM

ST Math creates a unique pathway of interconnected content challenges to provide differentiated instruction for individual students, regardless of skill level. The program is standards-aligned and moves students away from memorizing math drills and puts them in the mindset to think creatively.

THE PROGRAM’S IMPACT ON STUDENTS

Schools implementing ST Math with fidelity consistently show a doubling of math proficiency growth rates on state standardized math assessments. In early 2018, WestEd published the largest ever national study evaluating a math edtech program on multiple state assessments (42,000 students in 239 schools representing 74 districts in 14 states). Two outcomes were evaluated: average math scale scores and the proportion of students who were proficient or above in math. For both measures, grades that consistently implemented ST Math improved significantly more than similar grades that did not use the program. The effect size across all grades averaged 0.36, surpassing the Federal 'What Works Clearinghouse' criteria for "substantively important" effect. For additional information regarding this and other ST Math impact studies, please visit: <https://www.mindresearch.org/our-research>.

SPECIFIC SKILLS STUDENTS WILL LEARN

- Creative and rigorous problem solving
- Deep conceptual understanding of mathematics
- Intrinsic motivation
- Critical thinking and application
- Spatial-temporal reasoning

RESOURCES PROVIDED TO EDUCATORS

ST Math provides teachers with tools to monitor progress, facilitate learning for students who are struggling, and utilize digital manipulatives for whole class instruction. Resources such as professional development, student reports, live and recorded webinars, and robust technical support help empower educators so they can focus on student learning.

WEBSITE

stmath.com

CONTACT INFORMATION

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