

Improve Academic Achievement for ALL



My Math Academy®

Alignment to Title Funding Guidelines

My Math Academy is a next generation supplemental learning solutions designed to improve achievement through high-quality instruction and targeted personalized practice.

This research-based solution uses artificial intelligence to rapidly and precisely determine each student's level of knowledge, creating a personalized action plan to help them meet state academic standards. Real-time analytics make it simple for teachers to monitor performance, uncover meaningful data, and foster growth.

Implement Today Using Funding Allowances

Title I	Improving the Academic Achievement of the Disadvantaged	<ul style="list-style-type: none"> Use effective methods and instructional strategies that are based on scientifically based research Provide opportunities for all children to meet the state's proficient and advanced levels of student academic achievement 	✓
		<ul style="list-style-type: none"> Strategies to Increase Family and Student Engagement High-Quality Professional Development 	
	Title II:	Improving Teacher Quality	✓
	Title III:	Language Instruction for Limited English Proficient and Immigrant Students	✓
	Title IV, Part A and B:	Student Support and Academic Enrichment	✓
	Head Start:	School Readiness for Children Birth to Age 5	✓

Title I: Improving the Academic Achievement of the Disadvantaged

District Funding Allowances

My Math Academy Delivers

Title I:

Use effective methods and instructional strategies that are based on scientifically based research that:

- A. strengthen the core academic program in the school;
- B. increase the amount and quality of learning time, and
- C. include strategies for meeting the educational needs of historically underserved populations;
- D. include strategies to address the needs of all children in the school, but particularly the needs of low-achieving children and those at risk of not meeting the State student academic achievement standards
- E. innovative teaching methods, which may include applied learning and team-teaching strategies

My Math Academy is designed based on the 5 Strands of Mathematical Proficiency identified by the National Research Council to accelerate math achievement. All 5 Strands are covered in *My Math Academy* because the Strands are deeply intertwined and interconnected in the development of mathematical proficiency.

My Math Academy has received the Digital Promise Research-Based Design certification, which certifies that *My Math Academy* meets the highest rigor in research-based design.

My Math Academy's skills-based and standards-aligned games and lessons cover concepts and skills in productive disposition, conceptual understanding, procedural fluency, strategic competence and adaptive reasoning. At the heart of *My Math Academy* is an next-generation technology that adapts the game's learning path, scaffolding, and overall level of difficulty to meet the learner's needs. A host of scientifically based research underlies the design and development of this system:

- **Mastery Learning Theory** aims to deliver personalized ongoing **assessment, feedback, enrichment, and alignment** of the instructional components to keep the students in their zone of proximal development where they can reach their potential with guidance.
- **A highly detailed scope and sequence** is informed by current research on the learning trajectories approach for early mathematics, literature on math interventions, and state and national standards frameworks.
- *My Math Academy* promotes learning via playful engagement, learning in context, and **formative assessment**.¹ Children play to learn in *My Math Academy*.
- Game-based learning has been shown to sustain engagement and motivation across time via ongoing feedback, meaningful and engaging contexts, interactivity, and adaptive challenges.²
- Math is embedded in a story context, which helps all students gain access to math and make sense of **math problems in a story context**.³
- Continuous formative assessments require learners to actively practice retrieving new and previously learned information, which has been shown to be an effective strategy for promoting long-term retention.⁴

¹ Gee, 2003

² Bransford, Brown, & Cocking, 2000

³ Fisch's Capacity Model, 2000

⁴ Bjork, 1994

District Funding Allowances
Title I (cont):

Use effective methods and instructional strategies that are based on scientifically based research.

Title I:

Provide opportunities for all children to meet the state's proficient and advanced levels of student academic achievement.

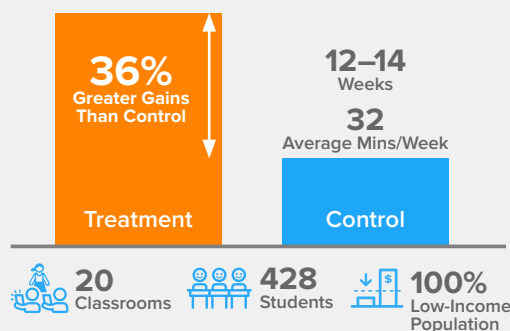
My Math Academy Delivers

My Math Academy has also received the **Digital Promise Product Certification on Learner Variability**, which certifies that *My Math Academy* has incorporated features and tools capable of supporting the broad range of learners in diverse learning contexts and creating multiple opportunities for differentiation. *My Math Academy* uses auditory and visual cues to guide players, as opposed to written language, so that the youngest learners can access each game's directions and feedback.

My Math Academy supports **applied learning** through the learning games and hands-on teacher-led activities. Through continuous formative assessment, students are required to demonstrate their mastery and understanding before moving on. Children also practice applying what they have learned through hands-on, teacher-led activities, and enrichment projects—available via the Educator and Caregiver Centers.

***My Math Academy's* standards-aligned and skills-based games contain coverage in every state standard domain from pre-K through 5th grade.** The program uses a Personalized Mastery Learning System to meet the needs of every child, whether he or she requires more practice with a concept or is ready for a challenge. This system ensures that every child is appropriately supported and challenged to maximize growth.

My Math Academy has been proven with two randomized-control trials to increase student math gains over a short period of time. In just 12–14 weeks, *My Math Academy* accelerated pre-K and kindergarten math learning gains by 36%, as compared to students who did not use the program. Over the course of 12–14 weeks, students learned an average of 25 new math skills. Another study replicated these findings with students in kindergarten through 2nd grade. Students made significantly greater gains on their math skills after using *My Math Academy* for about 15 hours over the course of 12–13 weeks, compared to a control group that did not use the program.

My Math Academy Helped Increase Math Gains in 12–14 Weeks*


***My Math Academy* significantly accelerates learning gains** in students' math knowledge compared to control-group peers in as little as 45 minutes per week.

See the full study at www.AgeofLearning.com/Research

District Funding Allowances

My Math Academy Delivers

Title I:

Strategies to Increase Family and Student Engagement

The **My Math Academy Caregiver Center** enables teachers to engage families as learning partners to assist in reaching students' learning goals. The home-school connection is facilitated as teachers can use digital teacher dashboards to assign custom lessons for students to complete at home for ongoing practice in math skills. Teachers can also share progress reports and student work through the *My Math Academy* platform.

The Caregiver Center provides an overview of the child's weekly usage, progress, and action items, as well as recommended activities that parents and caregivers can do at home to strengthen their child's understanding of specific concepts. The Caregiver Center also provides a short video clip of each game the child is playing and indicates why the concept or skill is important for the child to learn.

Notifications provide parents and caregivers with information about learning goal completion, progress, and accomplishments to celebrate. Thus, *My Math Academy* has the unique potential to bolster the home-school connection and help schools and educators extend learning at home as well as during breaks.⁵

Title I:

High-Quality Professional Development

High-quality implementation and professional development are provided to teachers through our e-Learning platform, webinars, professional resources, and tech support delivered throughout the year. The **My Math Academy Educator Professional Development Course** focuses on building teacher capabilities and confidence in launching the program, integrating *My Math Academy* in their everyday instruction, and making use of technology to reflect on data related to students' progress so they can personalize learning and intervene with struggling learners.

The Educator Center and professional development course were designed together with educators who have used the program, ensuring that they meet the needs of teachers.⁶

⁵ Alexander, Entwisle & Olson, 2007

⁶ Sheehan, Rothschild, & Buchan, in press

My Math Academy is a fully adaptive, standards-aligned program backed by gold-standard efficacy research.



Learn More!
AgeofLearning.com/Schools