



Investment Summary
Prepared For
Mount Diablo Unified School District

1936 Carlotta Dr, Concord, CA 94519

Attention:
Christine Ibarra
ibarrac@mdusd.org

For the Purchase of:
FASTT Math

Prepared By
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&

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PLEASE SUBMIT THIS PROPOSAL WITH YOUR PURCHASE ORDERS.

Attention:
Lisa Kotowski
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Intervention Solutions Group
255 38th Street, Suite L
St. Charles, IL 60174
FAX: 800-724-4716

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Mount Diablo Unified School District

7/31/2017

FASTT MATH NEXT GENERATION PROGRAM OVERVIEW

The new standards call for students to be fast and accurate with math facts in all four operations in order to succeed in higher-order mathematics. With *FASTT Math Next Generation*, students can master these skills very quickly. *FASTT Math Next Generation* is a game-changer for all students in Grades 2–9+, both those who are accelerating their acquisition of math facts as well as those who are struggling to catch up. *FASTT Math Next Generation's* adaptive technology creates an individualized learning progression for every student, and embedded assessment ensures math fact mastery. Students will be enthralled by 18 new games, and educators will appreciate how easy *FASTT Math Next Generation* is to implement. Progress monitoring couldn't be easier with new Student and Educator Dashboards.

With the research-validated *FASTT* system (Fluency and Automaticity through Systematic Teaching with Technology), computer-based instruction is automatically differentiated in customized daily sessions based on continuous assessments of students' fluency. The program employs a proven approach called "expanding recall" to help students move newly acquired math facts from their working to their long-term memory. No more than three new facts are introduced during any given 10-minute session to avoid cognitive overload. Placement and diagnostic assessments, adaptive instruction, independent practice, continuous progress monitoring, and actionable reports work together to meet each student's individual needs. For students who do not possess a conceptual understanding of the operations, the program offers additional lessons and activities that focus on the mathematical foundations they need before developing fluency.

Research Foundation

Dr. Ted Hasselbring, professor in the Department of Special Education at the Peabody College of Vanderbilt University, and Laura Goin, chief executive officer of Designs for Learning, developed *FASTT Math Next Generation* for students in need of assistance with mastering fact fluency. Dr. Hasselbring has an extensive background designing technology programs to help students with learning disabilities and those who have been identified as at-risk.

The *FASTT Math Next Generation* approach has been validated over several years of research with both struggling and non-struggling students. Studies involving more than 400 students have demonstrated that the *FASTT Math Next Generation* approach can be extremely powerful for developing fluency with basic math facts. Students who used the program regularly did better than students who were only occasional users. In a study conducted by Hasselbring and Goin (1988), the math-delayed students who received *FASTT Math Next Generation* gained nineteen new fluent facts while their math-delayed peers gained only seven new facts.

Implementation Options

FASTT Math Next Generation's implementation model couldn't be easier—students in Grades 2-9+ work independently for just 10 minutes a day, 3 to 5 times a week. While students are engaged in learning games, the *FASTT* system manages the pace, level, and multimodal instruction adapted specifically for each student. All students—including Title I, Special Education, and at-risk students, as well as students learning math facts for the first time—will build fact fluency fast. The perfect complement to any core math program, *FASTT Math Next Generation* fits into every schedule and every setting including the following:

- Before or after school, summer school
- Daily instructional math block
- During homeroom or computer lab
- Pull-out intervention
- Home

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Differentiated Instruction

FASTT Math Next Generation supports differentiated instruction and addresses diverse students’ needs by providing the following:

- **Adaptive Technology**—The *FASTT Math Next Generation* software adapts daily instruction according to an individual student’s performance. Results from the Placement Assessment are used to build an individualized Fact Grid that highlights the student’s fluent and non-fluent facts and selects facts for instruction. The program makes adjustments continually so that each student receives the targeted instruction and practice needed to gain automatic recall of all facts.
- **Individualized Practice**—Students receive multiple opportunities to practice retrieval of math facts. Several engaging games that become increasingly challenging as students improve provide a platform for improving speed and accuracy with facts they have already learned. In addition, Independent Practice sheets provide students with the opportunity to transfer learning from the computer to pencil and paper. These worksheets are customized to draw on student’s current fact fluency and can incorporate multi-digit and multi-operation computations.
- **Alerts**—The *FASTT Math Next Generation* program generates alerts to help teachers manage students’ use of the program. Alerts indicate performance issues such as slow progress or inconsistent usage, and automatically generate reports so that teachers can immediately provide targeted support.
- **Additional Interventions**—The Fact Fluency Foundations Guide offers concrete guidelines to further assess and address the needs of students who lack an understanding of the underlying concepts of number counting, quantity, and linking new facts to known facts. Before students engage in fact fluency, they may require one or more of the targeted interventions that address the mathematical foundations underpinning the basic operations.

Program Components

FASTT Math Next Generation software covers basic 0–9 and 0–12 addition, subtraction, multiplication, and division facts. *FASTT Math Next Generation* includes the following:

- FASTT Math Software
- Practice Sheets
- Teacher’s Guide
- Fact Fluency Foundations Guide
- Performance Monitoring and Management System

INVESTMENT SUMMARY

This document outlines the beginning of our partnership to enable learning and support your teachers. Please contact your HMH Education Services representative/HMH Account Executive to discuss how to create a deeper, customized professional development plan for your district.

FASTT Math 1 Year Subscription Plan to support unlimited students at 2 schools

Riverview MS:

- 1 FASTT Math Unlimited 1 Yr Subscription Site License Plan
- 1 FASTT Math Classroom Material Kit

Subtotal Purchase Amount for Riverview MS:	\$2,900.00
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Oak Grove MS:

- 1 FASTT Math Unlimited 1 Yr Subscription Site License Plan
- 1 FASTT Math Classroom Material Kit

Subtotal Purchase Amount for Oak Grove MS:	\$2,900.00
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Investment Summary	
Subtotal Purchase Amount:	\$5,800.00
Total Shipping & Handling Amount:	\$0.00
Total Tax Amount:	\$0.00
Total Cost of Proposal (PO Amount):	\$5,800.00

** Year 2 costs will be approximately \$2,900.00 per school. This estimation does not take into consideration any optional on-going professional services.

Please send Purchase Order to:

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Houghton Mifflin Harcourt

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This is a cost proposal only.

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<http://www.hmhco.com/terms-and-conditions.html>.**

Ts & Cs are also found on HMH invoices.

HMH reserves the right to modify its Ts & Cs from time to time and agrees to notify you prior to such modifications becoming effective.

Date of Proposal: July 31, 2017 Proposal Expiration Date: September 14, 2017

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