

 SCHOLASTIC

FAST^T Math[®]
NEXT GENERATION

Program Overview

Pages 1–32



Teacher's Guide



Program Overview

FASTT Math Next Generation	1
Program Components	4
The FASTT Math System	6
Student Experience	10
Educator Tools	16
Implementation Options	22
Getting Started	25

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FASTT Math Next Generation

Mathematical proficiency is a requirement for school achievement and workplace success in the 21st century. It depends on fluency with basic facts and fundamental concepts so that attention and memory are available for reasoning.

Since 2005, *FASTT Math* has provided the most efficient, personalized Instructional Software for students in grades 2–9+ to achieve math fact fluency. *FASTT Math* Next Generation is game-changing software for all students to learn their math facts. It works equally well for those who are accelerating their acquisition of facts and those who are struggling to catch up—because it is adaptive and based on what students know and can do. The *FASTT Math* adaptive technology algorithms create an individualized learning progression for every student, and embedded formative assessment ensures mastery. Students will be excited by new, engaging games, and educators will appreciate how easy *FASTT Math* is to implement.

*The Ultimate
Fact
Fluency
Program*



Sophisticated Technology

FASTT Math Next Generation Instructional Software uses the research-validated FASTT system (Fluency and Automaticity through Systematic Teaching with Technology) to help all students commit basic math facts in addition, subtraction, multiplication, and division to long-term memory.



The *FASTT Math* approach has been validated over many years of research with both on-grade and struggling students. Consistently, data shows that using *FASTT Math* for just 10 minutes each day, three to five times a week, helps students develop automatic recall of basic facts, thus freeing up attention and memory for deeper mathematical understanding and problem solving.

Actionable Data

In order to ensure successful implementation, teachers and education leaders need specific and reliable data on students' software use and learning progress. Scholastic Achievement Manager (SAM), the performance-monitoring management system in *FASTT Math*, aggregates data into understandable, actionable, and readily available reports.



Smarter

Research-Validated: *FASTT Math's* adaptive technology is proven to build fluency fast.

Teacher and Leadership Dashboards: Provide anytime/anywhere access to data.

Common Core Support: Meet higher expectations with data snapshots and anytime/anywhere access to games aligned to rigorous objectives.



Faster

Individualized Learning Path: Only *FASTT Math's* proven software continually adapts to students' needs.

Student Dashboard: Students reach their goals faster with daily evidence of progress to foster ownership and intrinsic motivation.

Anytime/Anywhere Access: Students can practice anywhere they have Internet access, enabling them to meet their goals even faster.



More Fun

Games: Practice games designed from game design and motivation research to encourage replay—and additional practice. Students work on basic facts as well as place value, properties of operations, and operations with 10 and multiples of 10.

Awards: Students can't wait to win another Virtual Trophy or unlock new software images.



- Anywhere, anytime access for students and teachers
- For all students, Grades 2–9+, who lack fact fluency
- Addition, subtraction, multiplication, and division
- Available in English and Spanish
- 10-minute instructional sessions, 3 to 5 times a week
- Flexible implementation options

Program Components

Student Materials

Instructional Software

The *FASTT Math* Instructional Software and 12 new fluency games leverage adaptive software to help students develop fluency with basic math facts in addition, subtraction, multiplication, and division through individualized practice. The Student Dashboard is a motivational system that helps students gain ownership of their learning with real-time progress updates.



STRETCH-To-Go

Math proficiency depends on fluency and computational flexibility. The six new engaging STRETCH-To-Go games extend fact fluency and build computational flexibility by focusing on properties of operations, 10 and multiples of 10, and multidigit calculations so that students can use facts flexibly and strategically.

And with STRETCH-To-Go, students can practice at home, in the media center, or anywhere they have Internet access. Access the STRETCH-To-Go games at www.fasttmath.com/stretch.



Educator Resources

Leadership Dashboard & Teacher Dashboard

The Leadership Dashboard provides administrators with the usage and performance data they need at the district, school, and class levels. The Teacher Dashboard gives teachers the student data they need to effectively manage instruction, implementation, and progress toward Common Core goals.



Teacher's Guide and Resources

The Teacher's Guide provides a detailed overview of the software, Common Core State Standards alignments, and additional lessons for struggling students. Online resources are always available to teachers, including the complete Teacher's Guide, Customized Worksheets and award certificates, Intensive Support reproducibles, and family letters.



The *FASTT Math* System

Research-Validated and Proven Effective

Developed by Dr. Ted Hasselbring, *FASTT Math* employs the research-validated FASTT algorithm—Fluency and Automaticity through Systematic Teaching with Technology. Designed to carefully manage cognitive load, the FASTT algorithm helps students retrieve the answers to basic math facts from memory, both accurately and fluently. *Fluently* means that facts are recalled *automatically* and *with understanding*.

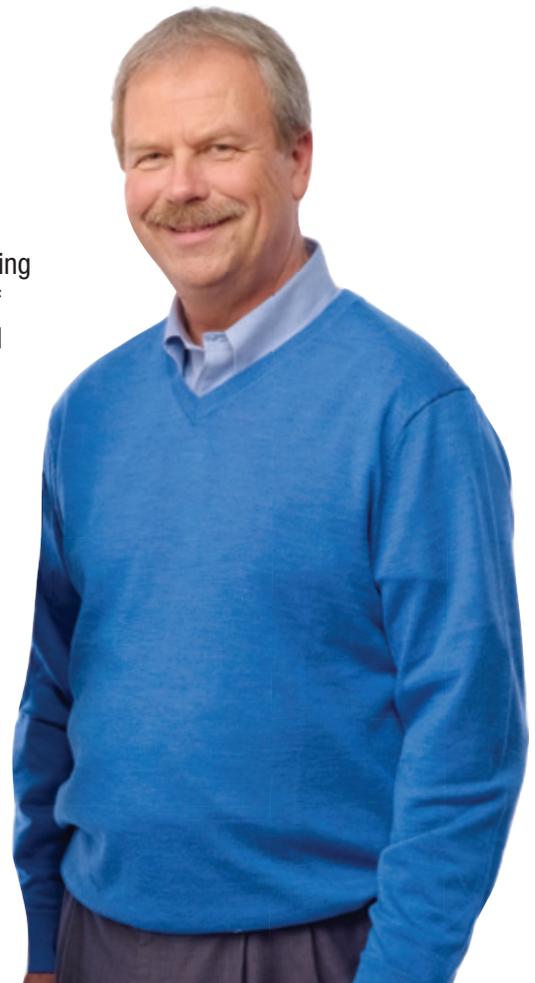
Students are considered fluent when they can accurately recall math facts in 0.8 seconds or less. Quick and accurate recall means that students are no longer using finger counting or other laborious strategies that consume essential working memory.

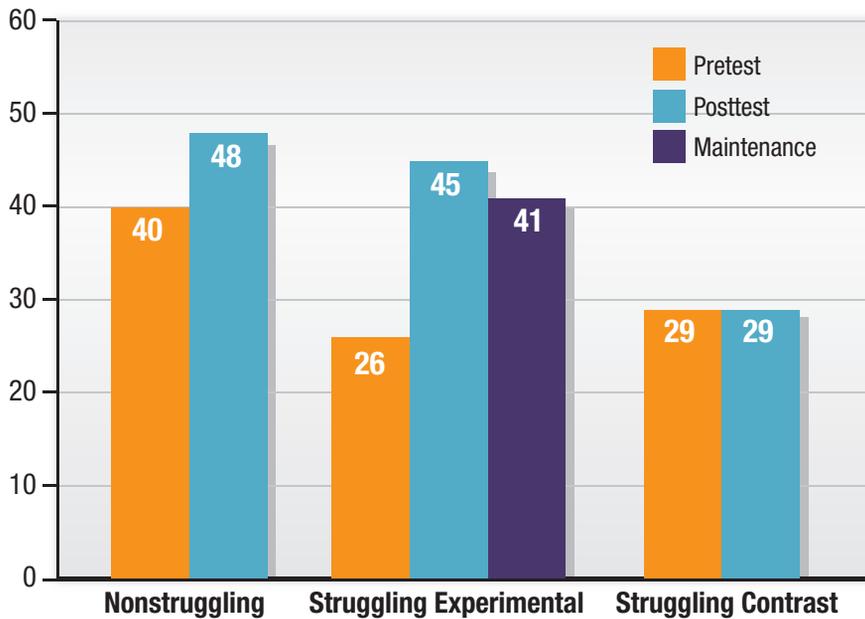
Through his research with struggling students, Dr. Hasselbring and his colleagues identified a need for a targeted math-fact fluency intervention. Discouraged by drill and practice programs, Dr. Hasselbring developed the *FASTT Math* approach, which helps students establish a lasting mental link between the facts and their answers. This understanding helps students use their working memory to solve strategy and higher-order math problems.

Dr. Ted Hasselbring

*Research Professor of Special Education,
Peabody College of Education,
Vanderbilt University*

Over the past 25 years, Dr. Hasselbring has conducted research on the use of adaptive technology to enhance learning in students with mild disabilities and those who are at risk of failing in school. He has authored more than 100 articles and book chapters on learning and technology and serves on the editorial boards of six professional journals. Between 2000 and 2006, Dr. Hasselbring served as the Executive Director of the National Assistive Technology Research Institute at the University of Kentucky. He is also the author of several technology programs, including Scholastic's leading reading intervention programs in the U.S.





A Comparison of the Mean Number of Fluent Addition Facts for Nonstruggling and Struggling Learners (Hasselbring et. al., 1988)

Research Foundation and Evidence of Effectiveness of FASTT Math

FASTT Math is research-validated and classroom-tested. Visit www.scholastic.com/fasttmath to download your free copy of the Research Foundations Paper.

For more information, see the Research & Validation section of this guide.

The FASTT Math approach has been validated over years of research with both nonstruggling and struggling students. In the study depicted in the graph, struggling students who used the FASTT Math approach increased their fluency by more than 70%. Those struggling students who received no intervention showed no growth.

In a separate study, students using FASTT Math in the spring retained over 70% of their facts when retested in the fall of the following school year.

THE KEY COMPONENTS OF THE FASTT MODEL

- 1 Individualized Assessment**—identify each student’s level of fluency.
- 2 Small Instructional Sets**—focus on a set of facts to be stored in long-term memory.
- 3 Student Generation of New Facts**—build memory relationship for facts.
- 4 Controlled Response Time**—require a specific amount of time to answer math facts.
- 5 Expanding Recall Model**—successfully move facts from working memory to long-term memory by strategically interspersing new facts with fluent facts.
- 6 Appropriate Practice**—practice facts stored in long-term memory.

Rigorous Content for College and Career Readiness

The College and Career Readiness Standards call for all states to set rigorous mathematics standards that build toward college- and career-readiness by the end of high school. College and career-readiness must be developed over time, from the earliest grades through high school. The Common Core State Standards (CCSS) layout a set of rigorous standards in mathematics. The CCSS call for students to be fast and accurate with addition, subtraction, multiplication, and division. In addition, the standards call for students to develop a conceptual understanding of the number system and properties of numbers and operations.

Importance of Fact Fluency

Too many students never master their math facts. They rely on inefficient strategies, such as finger counting, instead of automatic recall. When they encounter more complicated math like algebra and problem solving, they get bogged down with calculating basic math facts. These students struggle to free up mental resources to focus on the higher-order math.

Developing fluency of basic math facts—addition, subtraction, multiplication, and division—means that students’ mental energy is available to solve problems and reason mathematically, not retrieve basic facts. Fact fluency is critically important; it allows students to extend their fact knowledge to allow strategic reasoning and computational flexibility.



Students should be able to
*“fluently add and subtract . . .
fluently multiply and divide . . .”*

—Common Core State Standards, 2010,
pages 29–43

Fluency With *FASTT Math* Instructional Software

The *FASTT Math* Instructional Software helps all students become fluent in basic math facts. *FASTT Math* assesses and automatically differentiates instruction based on each student's individual fluency levels in customized, 10-minute daily sessions. The software continues to adapt to the needs of each student, assessing individual gaps in fact knowledge and providing targeted instruction and deliberate practice. The *FASTT Math* Instructional Software

- creates individualized learning progressions.
- manages cognitive load.
- provides instant corrective feedback.
- displays evidence of student progress and success.
- fosters student ownership and intrinsic motivation for learning.
- builds from a research-validated and proven-effective adaptive algorithm.

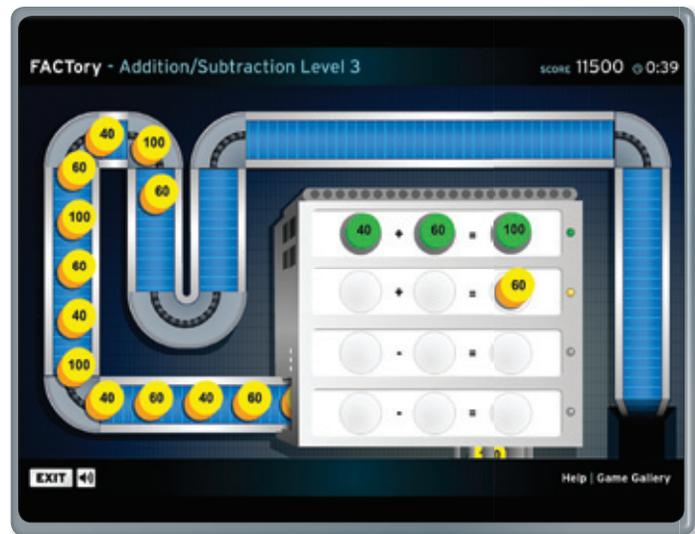


Flexibility With *STRETCH-To-Go*

STRETCH-To-Go is smart. The games extend the math-fact fluency students gain in the *FASTT Math* Instructional Software. The games dynamically use only the facts that each student has mastered or is learning. As students acquire more facts, each game automatically extends its content as well. In fact, the *STRETCH-To-Go* games favor the recently learned facts to ensure an even distribution of flexibility practice.

These adaptive games help students achieve additional Common Core expectations for computational flexibility. With *STRETCH-To-Go*, students apply their math facts to

- recognize the inverse relationships between addition & subtraction, multiplication & division.
- apply the properties of operations.
- find combinations for the same sum or product.
- compute math facts embedded in multiples of 10 and 100.
- evaluate addition, subtraction, multiplication, and division equations.



Student Experience

Student Dashboard

Nothing motivates like progress. And with the *FASTT Math* Next Generation Student Dashboard, students see themselves reaching new milestones everyday. This personalized view is an embedded achievement system that allows students to gain ownership of their learning with real-time progress.

(For more detailed information, see the Student Experience section of this guide.)

The screenshot shows the Student Dashboard for Christine Bracco. The interface includes a navigation bar with 'Home', 'My Fact Grid', 'My Reports', and 'My Personal Best'. The main content area is divided into several sections:

- My Math Facts:** Displays 'Operation: Multiplication' and three fact categories: 'Fast Facts' (0 6 5), 'Focus Facts' (0 0 6), and 'Study Facts' (0 2 9).
- News Feed:** Shows achievement messages: 'You unlocked the Insects style.', 'You have 2 new Focus Facts.', and 'You have a new trophy in Bubble Fish. 30 correct answers in a row.'
- My Progress:** Contains three charts:
 - Total Fast Facts:** A line graph showing an upward trend from approximately 70 to 85 over the weeks 4/4, 4/11, 4/15, 4/25, 5/2, and 5/9.
 - Session Time: Last 5 Sessions:** A bar chart showing session times in minutes: 10 (5/3), 9 (5/4), 18 (5/7), 22 (5/8), and 10 (5/9).
 - Top Game:** A card for 'Slime City' with a 'Personal Best 95,000' and a green alien character.

Callout boxes highlight the following features:

- Quick overview of student fact status:** Points to the 'My Math Facts' section.
- Daily news feed of student's achievement:** Points to the 'News Feed' section.
- High scores and trophies for motivation:** Points to the 'Top Game' section.
- Graphs to show improvement over time:** Points to the 'Total Fast Facts' line graph.

At the bottom of the dashboard, there are 'EXIT', 'GO', and 'Done' buttons, along with the text 'Click Go to start'.

My Fact Grid

Each day, students can see where they are and where they need to go using the Fact Grid. The Fact Grid showcases the math facts that the student knows fluently and the facts still to be learned. Over time, students see growth in the number of facts they know. “Focus Facts,” the facts currently being worked on, are presented in small instructional sets to carefully manage cognitive load.

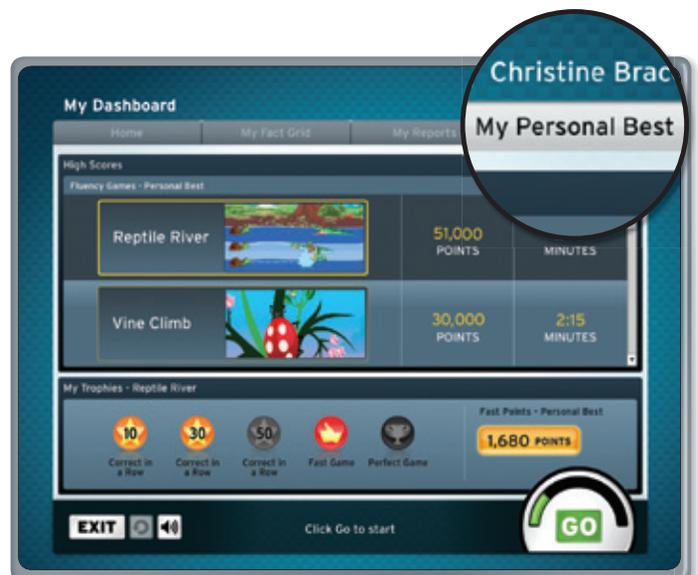


My Reports

Students always know their progress and growth in *FASTT Math*. The Common Core State Standards call for students to grow increasingly independent, so *FASTT Math* provides opportunities for students to monitor their own growth, providing a solid foundation for setting goals. In My Reports, graphs show Fast Fact improvement and session times.

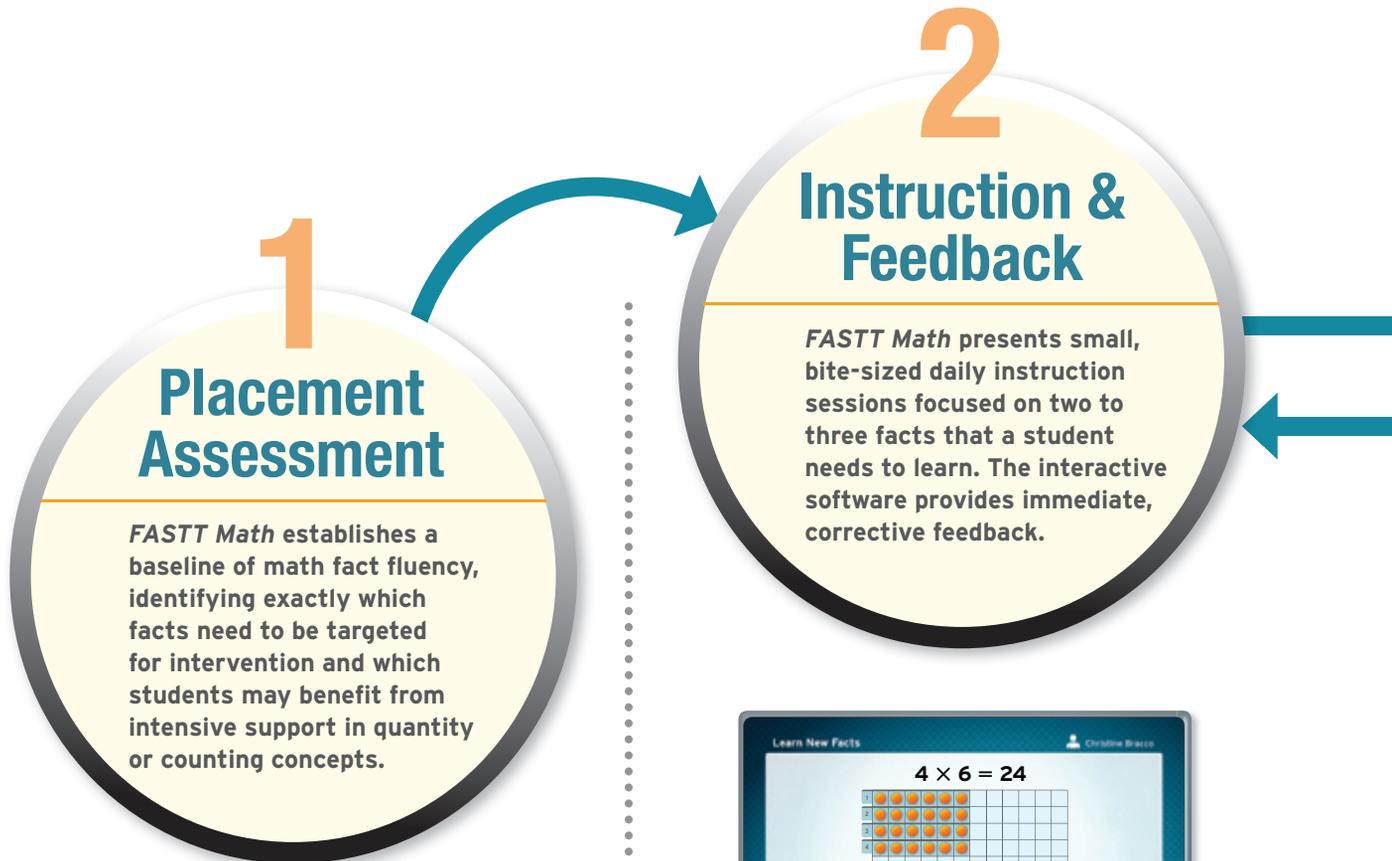
My Personal Best

By celebrating success, My Personal Best challenges students to reach new personal milestones and mark their growth. Students see their achievements in the form of high scores, best times, and trophies earned.

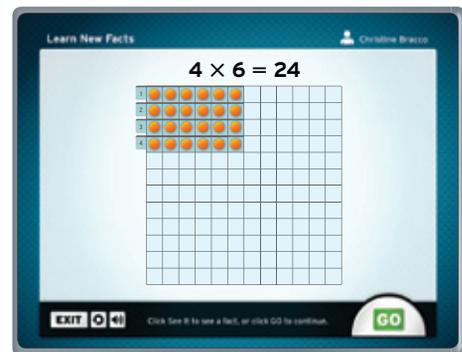


FASTT Math Adaptive Instruction

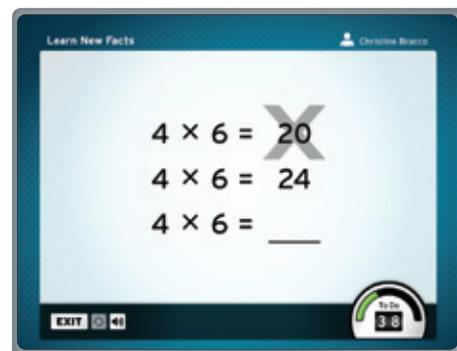
FASTT Math delivers targeted, differentiated instruction to meet each student's needs. Every student has a unique, individualized learning experience, building fluency at the pace and level adapted specifically for that student.



The Fact Grid is each student's personal progress monitor. It shows the facts a student knows fluently or still needs to master.



Adaptive instruction presents facts visually to strengthen a memory connection to the facts.



The program provides students with instant, corrective feedback.

FASTT Math continuously assesses student performance and adjusts instruction as necessary.

3

Independent Practice

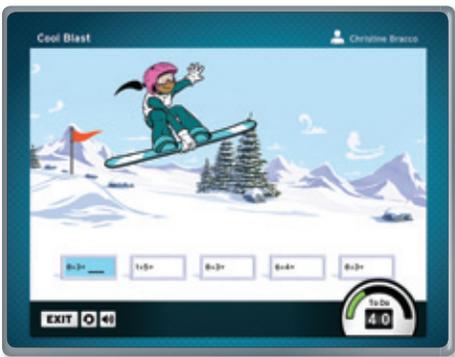
Fluency practice games develop students' confidence with learned and fluent facts.

STRETCH-To-Go games help students apply facts strategically and flexibly.

4

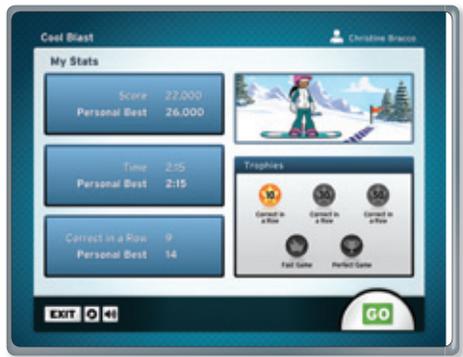
Fact Fluency

When students show fluency in one operation, they move to the next. The *FASTT Math* system ensures that all students can build long-lasting fluency to tackle more complex math.



Students of any age are engaged by a choice of 12 new fluency games and 6 new STRETCH-To-Go games!

Students get fluent faster through adaptive practice.



High scores and personal bests motivate all students to greater achievement.



FASTT Math rewards students by offering a growing number of styles in the Style Gallery.

STRETCH-To-Go

STRETCH-To-Go is designed to help students meet Common Core State Standards expectations for both fluency and flexibility. Through six individualized and adaptive games, STRETCH-To-Go helps students to do the following:



Understand

Use knowledge of math facts to develop and deepen understanding of the associative and commutative properties and number composition, as defined in the Common Core State Standards.

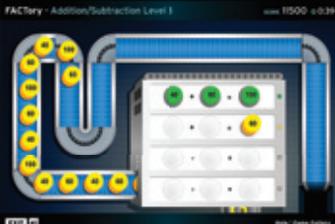
Connect

Make connections among fact families and fact relationships to recognize patterns within the Base 10 system and across operations.

Extend

Apply math facts to new contexts and computational formats to enhance understanding of equivalence and multidigit operations.



STRETCH-To-Go Game	Concept Skills	Number of Levels
<p>FACTory</p> 	<ul style="list-style-type: none"> • Understand and use properties of addition and subtraction. • Add and subtract multiples of 10. • Understand and use properties of multiplication and division. 	<ul style="list-style-type: none"> • Addition–6 • Subtraction–6 • Multiplication–6 • Division–6
<p>Sushi Monster™</p> 	<ul style="list-style-type: none"> • Fluently add within 100. • Understand and use properties of multiplication. 	<ul style="list-style-type: none"> • Addition–7 • Multiplication–4
<p>SpeedSwap</p> 	<ul style="list-style-type: none"> • Evaluate addition and subtraction equations. • Fluently add and subtract within 100. • Understand and use properties of multiplication and division. 	<ul style="list-style-type: none"> • Addition–4 • Multiplication–3
<p>x-Bot</p> 	<ul style="list-style-type: none"> • Understand and use properties of addition and subtraction. • Evaluate addition and subtraction equations. • Add and subtract multiples of 10. • Evaluate multiplication and division equations. 	<ul style="list-style-type: none"> • Addition–4 • Subtraction–4 • Multiplication–3 • Division–3
<p>Equal and Out</p> 	<ul style="list-style-type: none"> • Understand and use properties of addition and subtraction. • Evaluate addition and subtraction equations. • Evaluate multiplication and division equations. 	<ul style="list-style-type: none"> • Addition–10 • Subtraction–10 • Multiplication–7 • Division–7
<p>Teeing Up Tens</p> 	<ul style="list-style-type: none"> • Fluently add and subtract within 100. • Add and subtract multiples of 10. • Evaluate multiplication and division equations. 	<ul style="list-style-type: none"> • Addition–8 • Subtraction–8 • Multiplication–3 • Division–3

Educator Tools

Teacher Dashboard

The Teacher Dashboard helps to build the capacity of effective teachers. Teachers have anytime/anywhere access to the most important student usage and performance data to manage instruction and implementation.

The screenshot displays the Scholastic Teacher Dashboard interface. At the top, it shows the Scholastic logo, 'Teacher Dashboard Powered by SAM', and the date 'April 9'. A navigation bar includes 'Home', 'Hi, Sam Sinclair!', 'Notifications', 'Server Status', and 'Log Out'. The main content area is divided into several sections:

- Performance Data Snapshots (1):** A section titled 'STRETCH Common Core State Standards Proficiency' showing progress bars for various skills. A red circle with the number '2' highlights the 'Fluently Add & Subtract within 100' skill.
- Report Scheduler (4):** A section with 'Scheduled' and 'Saved' tabs, listing reports like 'Intervention Grouping Report' and 'Progress Report' for 04/9/12. It includes a 'View All' link and a 'Schedule a Report' button.
- Web Gateway:** A section with a 'Product Support' icon.
- Professional Development:** A section with a right-pointing arrow.

At the bottom, there is a footer with the Scholastic logo, copyright information '© 2012 Scholastic Inc. All Rights Reserved.', and a list of links: 'About Scholastic', 'Privacy Policy', 'Terms of Use', 'Customer Service', 'Careers', 'Investor Relations', 'Scholastic.com', 'Scholastic International', and 'Scholastic en Espanol'.

The Teacher Dashboard drives progress monitoring using performance data and real-time notifications.

1 Data Snapshots

Data Snapshots highlight performance and usage data for educators.

- Teachers can use the data to monitor student fluency, keep students on track, and intervene as needed.
- Administrators can view summary and detail information to ensure successful program implementation.

2 Progress on Common Core Standards

STRETCH-To-Go games are mapped to the Common Core State Standards. Through STRETCH-To-Go data snapshots, teachers and administrators can quickly learn how students are performing against the fluency expectations.

Leadership Dashboard

The Leadership Dashboard provides maximum transparency into the implementation data that matters the most to administrators. Now, leaders can easily access individual school, grade, and class data to monitor implementations and performance.

1 Data Snapshot: My District

2 Math Fact Fluency

3 Notifications

4 Report Scheduler

5 Product Support

6 Implementation Success Factors

SCHOOLS	STUDENT ENROLLMENT	% UNDERPERFORMING	% FLUENT	% ON MODEL FAST FACTS	% OFF MODEL FAST FACTS
All Schools	382	18	14	45	68
Anthony School	85	5	20	45	30

The Leadership Dashboard lets you measure progress and implementation with performance data and real-time notifications.

3 Notifications

Real-time notifications and alerts inform educators about software usage and students' progress to help inform instruction, intervention, and district-wide implementation.

4 Report Scheduler

Teachers and administrators can automatically generate reports on

- fact fluency and lesson status.
- response to intervention.
- growth and usage.
- *FASTT Math* implementation.

Scholastic Achievement Manager

The Scholastic Achievement Manager (SAM) serves as the dashboard for all Scholastic software programs, including *FASTT Math*[®], *Fraction Nation*[®], *READ 180*[®], *Scholastic Math Inventory* (SMI), *Do The Math*[®], and *Do The Math Now!*

SAM is a comprehensive online management system that collects and clearly organizes student performance data and Adequate Yearly Progress (AYP) accountability requirements, along with supporting district-wide aggregation. With nine actionable reports at their fingertips, teachers, administrators, and technology leaders automatically have the information they need to fine-tune instruction and improve student performance. Progress reports can be easily shared with families, administrators, and students.

The screenshot displays the SAM Home Tab interface. At the top, there is a navigation bar with 'Home', 'Roster', 'Reports', 'Resources', and 'Books'. Below this is a 'My District' section with four icons: Roster, Reports, Resources, and Books. A table below the icons shows a message: 'Export for Aggregation Successful' with a 'Show details...' link. The table has columns for Type, Message, Product, and Date. The Product is 'SAM' and the Date is '02/04/12'. At the bottom, there are statistics: 0 acknowledgements, 1 notification, 0 alerts, and 0 reminders.

Type	Message	Product	Date
	Export for Aggregation Successful	SAM	02/04/12

Within SAM, teachers and administrators can

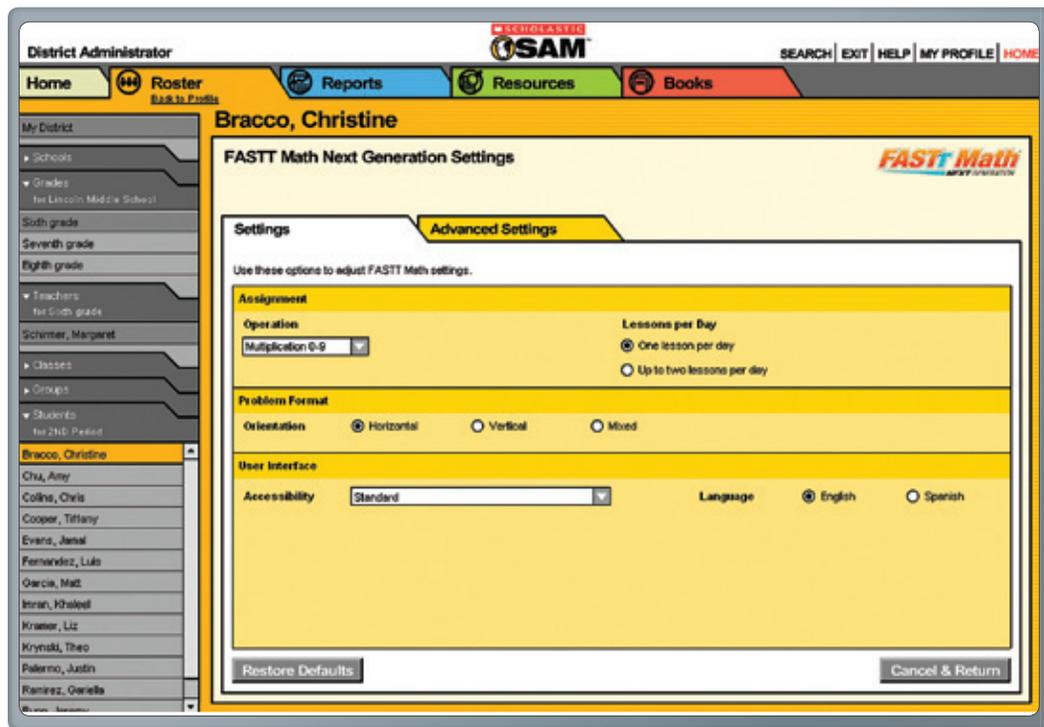
- enroll students in *FASTT Math* Next Generation and customize instruction.
- monitor student performance.
- access additional resources.
- access online Teacher's Guide.

Enroll Students and Manage Rosters

Using SAM, it is simple for teachers to enroll students in *FASTT Math* and manage class rosters. Students can also be enrolled at the district, school, grade, and teacher levels. If a student is not enrolled in *FASTT Math*, he or she cannot use the program.

Customize Instruction

Teachers can easily manage each student's settings to differentiate instruction.



Within SAM, teachers can customize

- mathematical operations
- number of lessons
- number of problems
- problem format
- response time limits
- accessibility supports
- English/Spanish language preference

Teachers can also generate and print award certificates and practice or homework worksheets customized to individual students.

Monitor Student Performance

SAM enables teachers, administrators, and technology leaders to view and understand this performance data in several ways. As students complete lessons in *FASTT Math*, the program captures crucial performance data.

Actionable Reports, Accelerated Results Nine powerful reports provide teachers and administrators with the information they need at the district, school, and class level to fine-tune instruction and improve student performance. The following reports are available:

- Student Fact Fluency Status
- Student Lesson Status
- Student Response to Intervention
- Progress
- Intervention Grouping
- Summary Progress
- Implementation
- Growth and Usage
- Demographic Growth



Access Additional Resources

SAM provides electronic access to all of the *FASTT Math* resources available to teachers. Resources include the following:

- Award certificates to recognize success when students are fluent in an operation
- Intensive Support diagnostic assessment and lesson reproducibles for students who lack the foundational skills needed for fact fluency
- Family Letters in English and Spanish, including information about accessing *FASTT Math* lessons and games from home or anywhere there is an Internet connection
- Teacher's Guide
- Common Core State Standards by grade



Technical requirements for *FASTT Math* Next Generation, and software manuals SAM and *FASTT Math* Next Generation are available through Scholastic's Product Support website. <http://edproductsupport.scholastic.com>

Implementation Options

Who Benefits From *FASTT Math Next Generation*?

FASTT Math Next Generation can be used for all students from grades 2–9+ who lack fluency in basic math facts. Students who benefit from *FASTT Math* include

- students learning math facts for the first time.
- students who demonstrate poor computation performance in math class or on standardized tests.
- students receiving remedial math instruction.
- special education students with identified learning disabilities.
- students who are slow with only some math facts.

Intensive Support Interventions

Students whose fact fluency is less than 50% of the facts in an operation or students who may struggle with memory, language, and even spatial deficits are good candidates for the Intensive Support interventions. Created by Dr. Katherine Garnett, these interventions help students develop the conceptual underpinnings they need to understand quantity and number. (See the Intensive Support section of this guide for more details.)

Dr. Garnett is a leading expert in special education and learning disabilities and a former chairperson of the Department of Special Education at Hunter College, City University of New York. She speaks with the authority of a master teacher who knows both the relevant research and the day-to-day realities of struggling students.

Implementing *FASTT Math*

Flexible Usage

FASTT Math Next Generation provides an individualized, self-paced experience for each student. Sessions are approximately 10 minutes long. Students will achieve success when they use *FASTT Math* at least three times a week, preferably daily.

Since the program is self-paced and can be used independently, there are many opportunities for students to use it during a typical school day:

- as a before-school math program
- during computer lab periods
- during homeroom
- as pull-out intervention
- in a daily instructional math block
- in summer school
- in targeted after-school programs
- at home

Flexible Classroom Model

Find the best fit for *FASTT Math* in your classroom model.

- In the classroom, students can quickly and independently rotate onto classroom computers for *FASTT Math* everyday.
- In the computer lab, teachers can allocate 10–15 minutes of lab time for the whole class or a small group to use *FASTT Math*.

Before your students begin using *FASTT Math*, determine where and when they will be able to access the program to achieve best results.

Using *FASTT Math* With Other Scholastic Programs

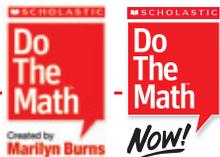
Teachers use the Scholastic Achievement Manager (SAM) to monitor progress and track students' performance in *FASTT Math*, *Fraction Nation*, *Scholastic Math Inventory*, *Do The Math*, and *Do The Math Now!* Teachers can generate reports on a weekly basis to see how students are progressing and determine if they need additional interventions.



Fraction Nation can easily be used alongside *FASTT Math*, due to its similar flexible implementation model. *Fraction Nation* students work independently on the computer for only 15 minutes each day and can do this while other classmates use *FASTT Math*.



Teachers may administer SMI 3–5 times a year to monitor students' overall progress and measure their mathematical achievement level. Results are reported in Quantile® measures that indicate students' readiness to learn mathematical concepts and skills.



Some students, particularly those who struggle most with math, will need teacher-directed instruction in basic operations. Students who do not show progress or mastery in *FASTT Math* are candidates for *Do The Math* or *Do The Math Now!*, intervention programs that offer direct instruction to build foundation of basic operations.

Multi-Tiered Systems of Support

Supporting Response to Intervention

Response to Intervention (RTI) supports the practice of providing high quality instruction and interventions that match students' learning needs. *FASTT Math* is the perfect companion to RTI, supporting students in each tier with high-quality instruction and at the same time monitoring student performance and growth.

The guidelines below are meant to serve as a recommendation for how *FASTT Math* Next Generation can fit into this framework.

Tier 3

Intensive Support Interventions

Intensive, individualized intervention for students who have less than 50% fact fluency or are more than two grade levels behind.

3

Tier 2

Targeted Small-Group Interventions

Targeted group interventions for students who are at least one grade level behind in fact fluency.

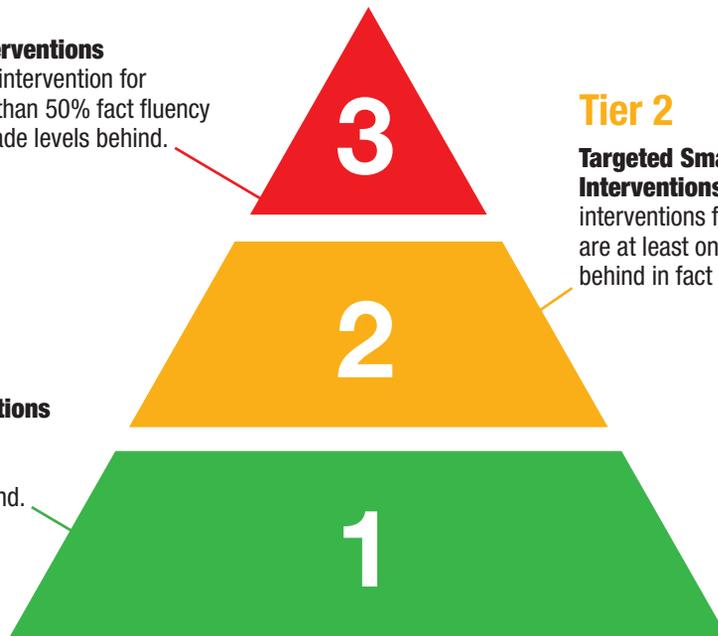
2

Tier 1

Instructional Interventions

Proactive and preventive interventions to ensure students do not fall behind.

1

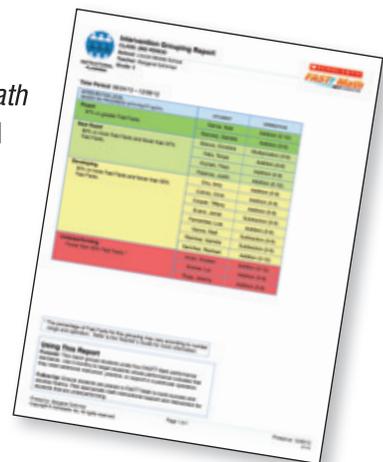


Intervention Grouping Report

The Intervention Grouping Report categorizes students into *FASTT Math* performance standards. Use it to target students who need additional instruction, practice, or support.

Response to Intervention: An Alignment Guide for *FASTT Math*

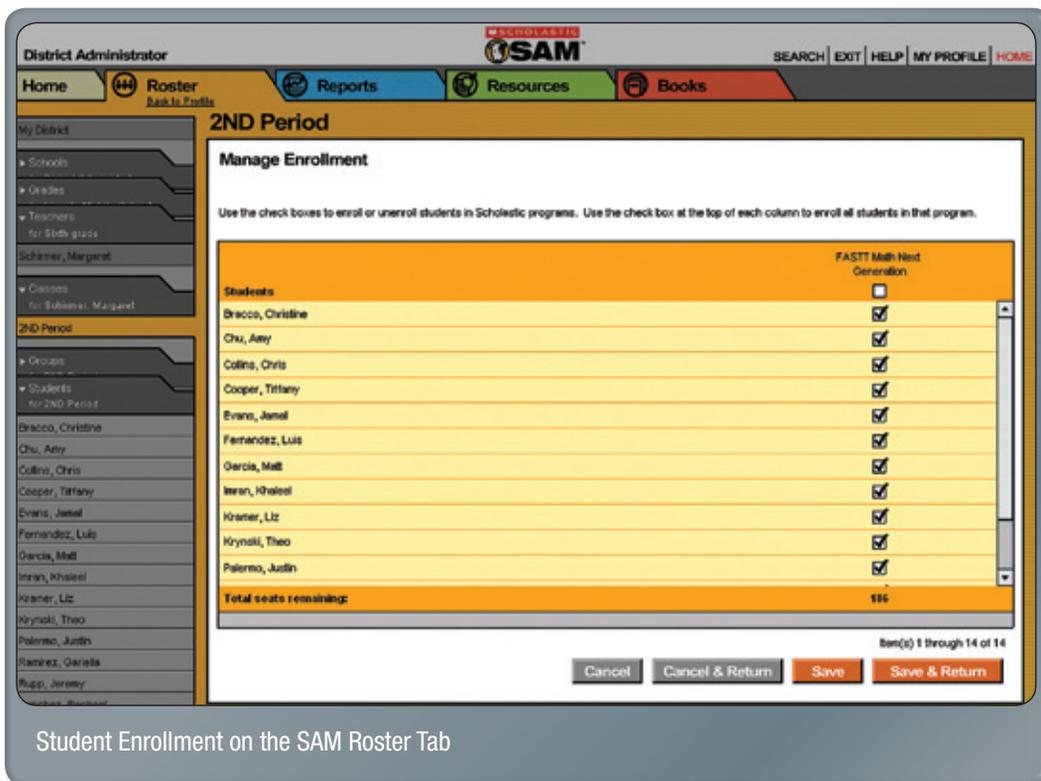
Visit www.scholastic.com/fasttmath to download your free copy.



Getting Started

Student Enrollment

Once *FASTT Math* and SAM have been installed, teachers use the Roster Tab to enroll students in the program and adjust the program settings for individual students. If a student is not enrolled in *FASTT Math*, he or she cannot use the program.



District Administrator | SCHOLASTIC | **SAM** | SEARCH | EXIT | HELP | MY PROFILE | HOME

Home | **Roster** | Reports | Resources | Books

My District

- Schools
- Grades
- Teachers for 5th grade
- Schirmer, Margaret
- Classes for Schirmer, Margaret
- 2ND Period
- Groups
- Students for 2ND Period
- Bracco, Christine
- Chu, Amy
- Collins, Chris
- Cooper, Tiffany
- Evans, Jamal
- Fernandez, Luis
- Garcia, Mall
- Innan, Kholeel
- Kramer, Liz
- Krynaki, Theo
- Palermo, Justin
- Ramirez, Gabriela
- Rupp, Jeremy

2ND Period

Manage Enrollment

Use the check boxes to enroll or unenroll students in Scholastic programs. Use the check box at the top of each column to enroll all students in that program.

Students	FASTT Math Next Generation
Bracco, Christine	<input checked="" type="checkbox"/>
Chu, Amy	<input checked="" type="checkbox"/>
Collins, Chris	<input checked="" type="checkbox"/>
Cooper, Tiffany	<input checked="" type="checkbox"/>
Evans, Jamal	<input checked="" type="checkbox"/>
Fernandez, Luis	<input checked="" type="checkbox"/>
Garcia, Mall	<input checked="" type="checkbox"/>
Innan, Kholeel	<input checked="" type="checkbox"/>
Kramer, Liz	<input checked="" type="checkbox"/>
Krynaki, Theo	<input checked="" type="checkbox"/>
Palermo, Justin	<input checked="" type="checkbox"/>
Total seats remaining:	186

Item(s) 1 through 14 of 14

Cancel | Cancel & Return | Save | Save & Return

Student Enrollment on the SAM Roster Tab



SCHOLASTIC ACHIEVEMENT MANAGER (SAM)

For more information and product updates

- go to www.scholastic.com/education/productsupport.
- select Scholastic Achievement Manager, Manuals.
- download “Enrolling and Managing Students Using Scholastic Achievement Manager.”

FASTT Math Program Settings

Settings Options

From the Roster Tab in SAM, you can manage each student's settings to differentiate instruction.

Assignment: Before any student can use *FASTT Math*, you must assign the student an operation and fact range, 0–9 or 0–12. The default assignment is Addition 0–9. If a student is not assigned to an operation, he or she will not be able to log in to *FASTT Math*.

Changing Student Assignment: You can change the student assignment to a different operation. You can also change the fact range for an operation. If you change the student assignment from the 0–9 fact range to the 0–12 fact range and the student has already finished the Placement Assessment, he or she will need to take a shortened Typing and Fact Assessment (for facts in the 10–12 range) the next time he or she logs in to *FASTT Math*.

Lessons per Day: The recommended setting is one lesson/session per day when using the program three to five times per week. If the student cannot use the program at least three times per week, you may want to change the setting to up to two lessons per day.

Problem Format: You may select a horizontal, vertical, or mixed problem orientation to give the student practice viewing problems in various formats.

Accessibility: You may select high-contrast display for a visually impaired student.

Language: *FASTT Math* supports both English and Spanish. When Spanish is selected, all narration and text displays are in Spanish.

Advanced Settings Options

Response Time Limit: Response Time Limit is the amount of time allotted to provide the correct answer to the fact. It is used as a measure in turning a Study Fact into a Focus Fact. Adjust the settings of the program to accommodate learner differences.

Problems per Activity: The number of problems presented during instruction can be increased for a student who quickly masters facts or decreased for a student who needs more time to absorb new information, has trouble completing lessons on time, or is struggling and becoming frustrated before finishing the lesson.

Placement Assessment: You can reset the Placement Assessment for a student to allow him or her to start the program over again. When you select Reset Placement Assessment, the student will start with the assessment the next time he or she logs in to *FASTT Math*. Use caution when modifying this setting. The Growth and Usage Report and the *FASTT Math* Implementation Report will only use the current operation data and will not include performance data prior to resetting the Placement Assessment.

Setting	Options	Reasons to Change the Default Setting
Operation	<ul style="list-style-type: none"> • Addition 0–9 (default) • Addition 0–12 • Subtraction 0–9 • Subtraction 0–12 • Multiplication 0–9 • Multiplication 0–12 • Division 0–9 • Division 0–12 	The student completed the assigned operation.
Lessons per Day	<ul style="list-style-type: none"> • One lesson per day (default) • Up to two lessons per day 	The student cannot use the program three or more times a week.
Problem Format	<ul style="list-style-type: none"> • Horizontal (default) • Vertical • Mixed 	To give the student practice in viewing problems in various formats.
Accessibility	<ul style="list-style-type: none"> • Standard (default) • High Contrast/Dark Background • High Contrast/Light Background 	To provide high contrast display for a visually impaired student.
Language	<ul style="list-style-type: none"> • English (default) • Spanish 	ELL support for Spanish speakers.
Response Time Limit	<ul style="list-style-type: none"> • Standard (1.25 seconds) (default) • Extended (1.5 seconds) • Maximum (1.75 seconds) 	The student consistently has trouble mastering facts.
Problems per Activity	<ul style="list-style-type: none"> • 70 (Daily lessons may be longer.) • 60 (default) • 50 (The student may require more sessions to complete the operation.) 	The student needs more time to absorb new information, has trouble completing lessons on time, or is struggling and becoming frustrated before finishing the lesson.
Placement Assessment	<ul style="list-style-type: none"> • Reset Placement Assessment 	The student performed poorly during the first Placement Assessment because he or she lacks basic number sense and operation skills, or because the student was distracted during the assessment.

FASTT Math Reports

In the Reports Tab in SAM you can generate a variety of reports, which provide you with information on student, class, group, grade, school, and district progress. Reports display a variety of formats, including charts and usage graphs.

Teachers can create reports for individual students, groups, or an entire class; administrators can create additional reports for grade level, school, individual teachers, and district. Each of the reports can be used for different purposes and for *FASTT Math* they are organized into the following categories: Diagnostic, Progress Monitoring, and Instructional Planning.

Select District, School, Grade, Teacher, Class, Group, or Student.

Select a time period.

Choose report settings, including the operation.

Click to run the report.

Select a report.

	Type	Date Last Run
<input type="radio"/> Multi-Classroom Reports		
<input type="radio"/> Classroom Reports		
<input type="radio"/> Student Reports		
<input type="radio"/> Intervention grouping report	Instructional Planning	
<input type="radio"/> Progress Report	Progress Monitoring	
<input type="radio"/> Student Fact Fluency Status Report	Diagnostic	
<input type="radio"/> Student Lesson Status Report	Diagnostic	
<input type="radio"/> Student Response to Intervention Report	Progress Monitoring	

If you select the **Save a Copy (PDF)** link while viewing a generated report, you can save the report on the SAM server. You can access this report by clicking the **View Saved Reports** link on the Reports Index screen.

If you select the **Related Reports** link while viewing a generated report, a window will display a list of all related reports.

If you select the **Using this Report** link while viewing a generated report, a window will display a narrative of the purpose and follow-up related to the report.

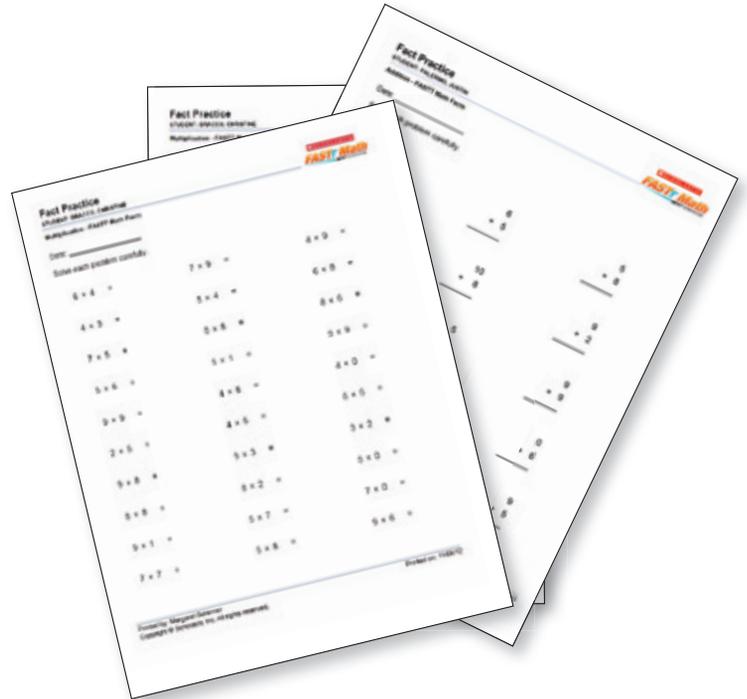
- Reports can be printed only for students who are assigned to an operation in *FASTT Math*.
- See the Reports section (pages 121–144) for a complete overview of the reports.

Customized Worksheets

From the Resources Tab in SAM you can print Customized Worksheets for each student. These printed Customized Worksheets draw on each student's fact fluency, allowing the student to apply the facts he or she is learning including multidigit and multi-operation computations.

Customizing Worksheets: There are several options for customizing worksheets.

- Operation:** The program will generate a worksheet for the operation to which the student is currently assigned. You may select a different operation or more than one operation at the same time. Selecting more than one operation will create a worksheet with mixed problems that is generated from all selected operations up to and including the most advanced operation the student has been assigned.
- Problem Type:** The program can generate worksheets with problems based on the student's Fast Facts and Focus Facts. You may also generate problems having multiple digits or problems with or without regrouping, also based on the student's Fast Facts and Focus Facts.
- Problem Orientation:** The program can generate worksheets with problems in a horizontal, vertical, or mixed orientation. When you select horizontal orientation, the student will get 30 problems on the worksheet. Worksheets with vertical or mixed orientation contain 15 problems. If "2-digit facts" or "2-digit or more facts" is selected in Problem Type, the orientation will be vertical.
- Printing Option:** You can print the answer key for every worksheet generated by the program. Each worksheet and answer key contains the name of the student.

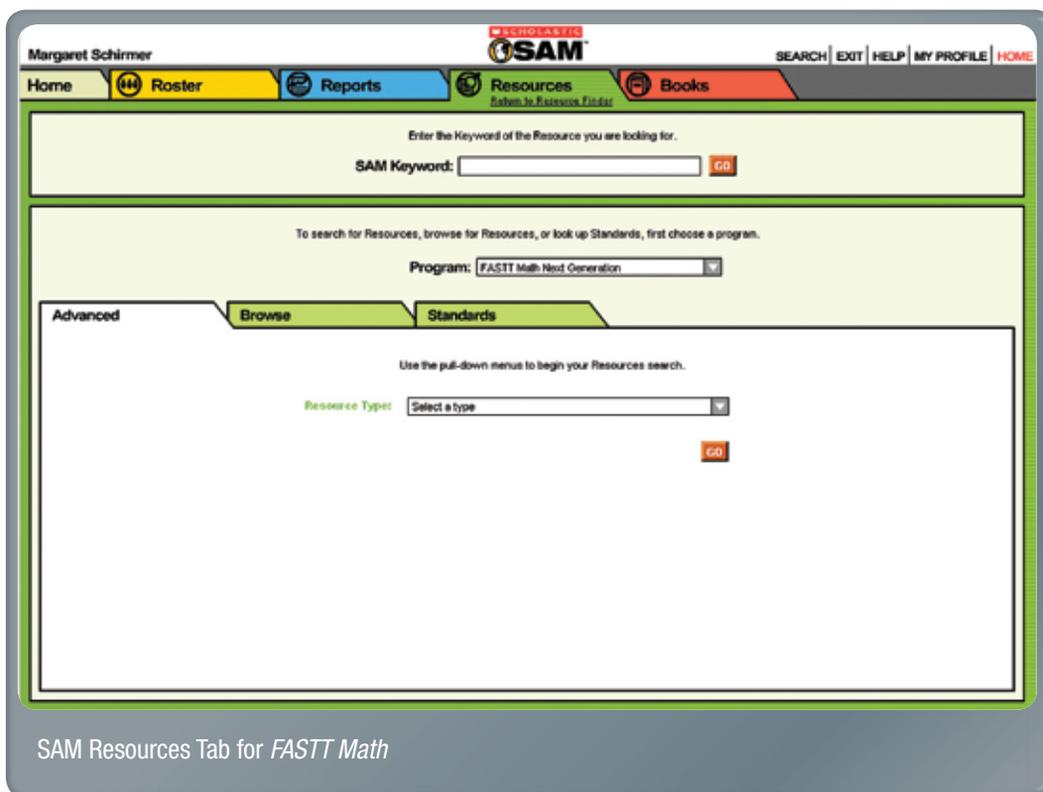


FASTT Math Next Generation Resources

From the Resources tab in SAM you can find a variety of resources to support instruction of individual students and your class as well as for your professional development needs.

Using Keyword Search

You can search for resources using SAM Keywords, such as *software manual*.



The screenshot shows the SAM Resources Tab for FASTT Math. At the top, there is a navigation bar with tabs for Home, Roster, Reports, Resources (selected), and Books. The Resources tab is highlighted in green. Below the navigation bar, there is a search area with the text "Enter the Keyword of the Resource you are looking for." and a "SAM Keyword:" input field with a "GO" button. Below this, there is a section for browsing resources with the text "To search for Resources, browse for Resources, or look up Standards, first choose a program." and a "Program:" dropdown menu set to "FASTT Math Next Generation". Below the dropdown menu, there are three tabs: "Advanced", "Browse" (selected), and "Standards". Below the "Browse" tab, there is a "Resource Type:" dropdown menu set to "Select a type" and a "GO" button. The entire interface is framed by a grey border.

SAM Resources Tab for *FASTT Math*

Using Advanced Search

The Resource Finder has an advanced search that allows you to search for materials by using more specific criteria. Click the Advanced tab to use this feature.

Browsing for Resources

The Resource Finder also has a Browse feature that allows you to find resources associated with *FASTT Math*. The Browse tab organizes resources into several different categories as they relate to your classroom needs, as follows:

Resource Type	Available Resources
For whole- and small-group instruction	<ul style="list-style-type: none"> • Math Foundations Diagnostic Assessment • Intensive Support Lesson Reproducibles
For individual students	<ul style="list-style-type: none"> • Math Foundations Diagnostic Assessment • Intensive Support Lesson Reproducibles • Addition Mastery Award Certificate • Subtraction Mastery Award Certificate • Multiplication Mastery Award Certificate • Division Mastery Award Certificate • Family Letter (English) • Family Letter (Spanish)
For professional development	<ul style="list-style-type: none"> • Teacher's Guide

Searching for Standards

The Standards tab allows you to search directly for a specific standard as it relates to *FASTT Math*. This tool helps to access Common Core State Standards and state-specific standards.

Customized Award Certificates

From the Roster Tab in SAM, you can generate and print a customized Award Certificate for a student, multiple students, a teacher, a grade, or a school at any time. Selections depend on whether you are a teacher or administrator.

Select Student, Group, Class, Teacher, Grade, School, or District.

Select FASTT Math Award Certificate.

Certificate Manager Screen

Enter a custom message to display on the Award Certificate.

Select names from the table.

