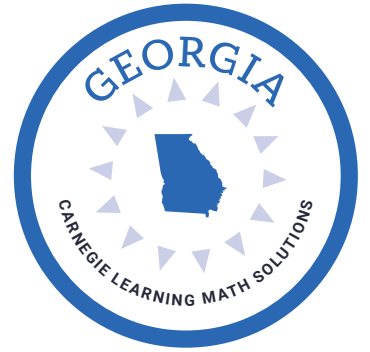


**CARNEGIE  
LEARNING**



CLEAR Math<sup>®</sup>

# Georgia Math Solution

Awaken the math person in every student.



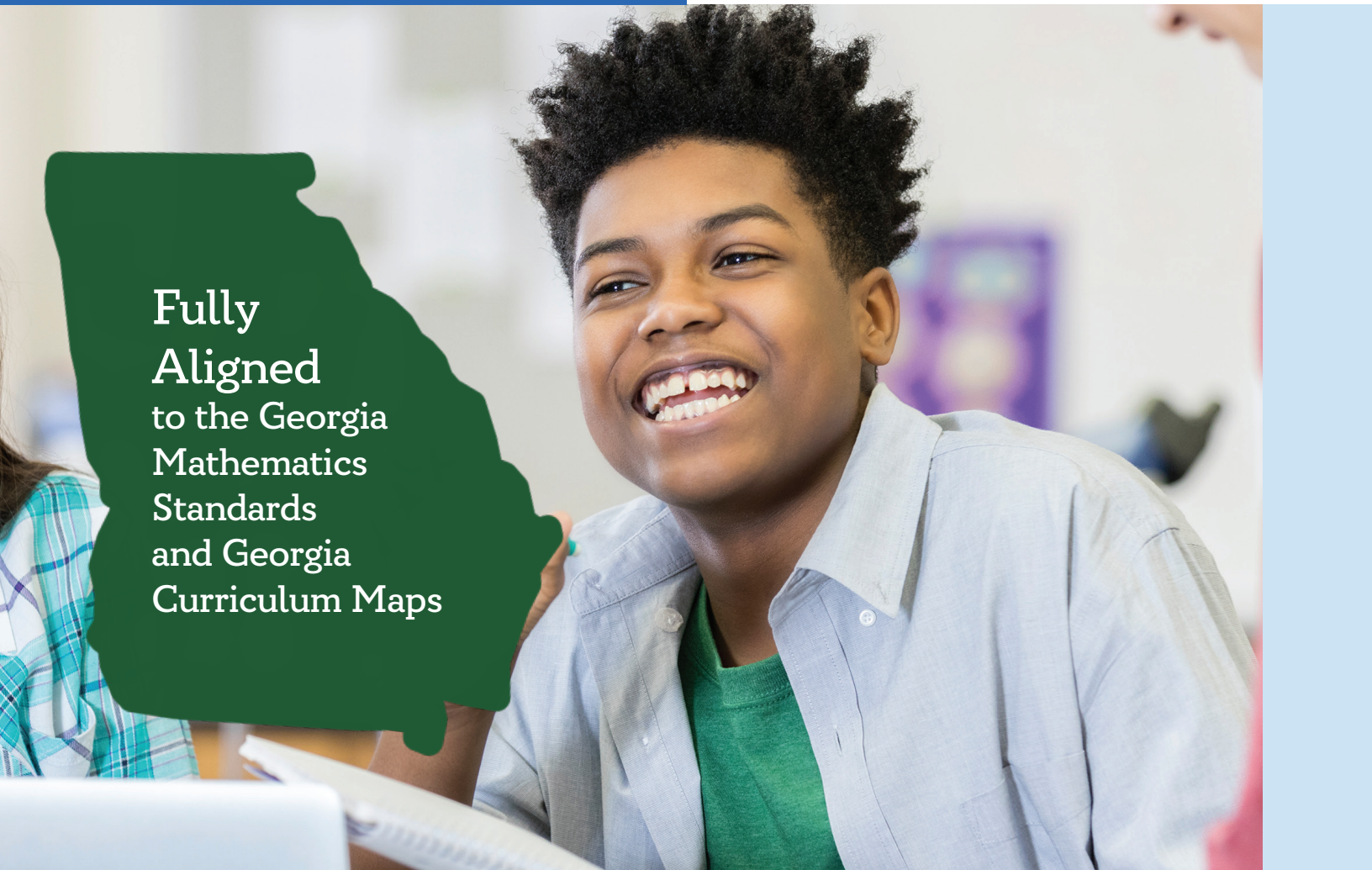
**6–12 Core Math Solution**

**Program Overview**

**Customized for Georgia!**

Inspire your students to become active, insightful mathematical thinkers.

Our Georgia Math Solution empowers every learner to experience joy in math as they meet and surpass the Georgia Mathematics Standards and develop deep mathematical understanding. Teachers value student voice and facilitate the productive struggle students need to reach their fullest potential. With AI-driven and individualized adaptive learning, collaborative work, and rich math discussions, students grow to new heights and discover their inner mathematicians.



Fully  
Aligned  
to the Georgia  
Mathematics  
Standards  
and Georgia  
Curriculum Maps

# What is the Carnegie Learning Georgia Math Solution?

The Carnegie Learning Georgia Math Solution is a core math solution built for a diverse range of thinkers, leveraging the natural talents and assets every student brings to the classroom. This unique experience balances opportunities for students to learn collaboratively and individually, helping each student discover they've been a math person all along.

Students develop confidence as math thinkers and communicators through collaborative, teacher-facilitated learning experiences with the interactive text, in print and digital formats.

When it's time to explore math independently, they dive into MATHia®, the AI-driven, one-to-one online coaching software that adapts to individual student needs.

A complete suite of implementation guides, interactive lesson materials, including MATHstream interactive, adaptive instructional videos, plus assessments, and data insights that empower teachers to meet every student where they are in their math journey.



## Intentional design for intentional instruction

Get ready for a seamless teaching and learning experience in one course. MATHbook and MATHia work together, giving teachers the confidence to meet all their planning and instructional needs. They no longer have to worry about the challenge of matching materials or cobbling together an instructional schedule that makes sense. MATHbook and MATHia work in sync to empower students with the perfect union of learning experiences: time to talk about math and collaborate and an opportunity to learn at their own pace.

Seamlessly integrate Desmos tools and MATHia software into teaching and learning through the Clear Learning Center.





# Today's data drives tomorrow's success

Help create the next generation of math thinkers by knowing where your students are and never losing sight of where they're headed. Teachers get reliable insights into student learning with the comprehensive combination of MATHbook, MATHia, and MATHstream.

Get unprecedented insights into students' current needs, plus predictive measures on their future performance on Georgia Milestones end-of-grade and end-of-course tests, with MATHia's LiveLab and APLSE report. Teachers can feel confident adjusting instruction and student support minute-by-minute and skill-by-skill with insights backed by 30 years of research on how students learn.



*MATHstream's in-depth reports provide valuable insights, including skill progress and student grouping recommendations, to inform instructional decisions.*

*The Adaptive Personalized Learning Score (APLSE) Report is a predictive report that displays class and student progress over time.*

*LiveLab provides real-time insights on days when students use MATHia so you can focus your attention on students who need it the most.*

And because nothing can replace teachers' direct observations, MATHbook also provides opportunities to gather insights into how your students learn as they collaborate and engage in productive math dialogue.

Questions to Support Discourse		TYPE
1	<ul style="list-style-type: none"> <li>How did you decide which equation matched each scenario?</li> <li>Which phrases in the scenario helped you decide which equation to choose?</li> <li>How did you decide which equation matched each graph?</li> </ul>	Probing
	<ul style="list-style-type: none"> <li>Do all the equations look the same? What is the same and different as you compare the equations?</li> <li>Do all the graphs look the same? What is the same and different as you compare the graphs?</li> </ul>	Seeing structure

**Student Look-Fors**

Whether students are demonstrating proficiencies related to these Habits of Mind:

- Model with mathematics.
- Use appropriate tools strategically.

*Built-in questions for teachers support discourse and conversations that elicit evidence of student thinking and understanding.*



## Building math thinkers through productive struggle

MATHbook and MATHia intentionally prioritize keeping students in the zone of learning where they face challenges without feeling overwhelmed; where they develop the ability to persevere and think flexibly rather than just seek the correct solution.

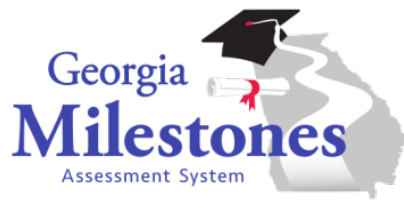
MATHbook's write-in format allows students to create their own knowledge as they engage in making mistakes and learning from them. Teachers facilitate and encourage students to collaborate with the questioning and discourse supports provided in the Teacher's Implementation Guide.

When students are ready to learn individually, MATHia's adaptive AI platform serves up the exact amount of problems students need to hone their skills, with just-in-time and on-demand hints that keep them in the sweet spot of productive struggle.

“One of my students felt he was never good in math. But through a lot of productive struggle, he learned how to write an equation from a word problem and in multiple representations. It was a small success in the scheme of the school year, but to him, it was like he had climbed Mt. Everest. When he was finished, he felt like he could solve any problem in the world.”

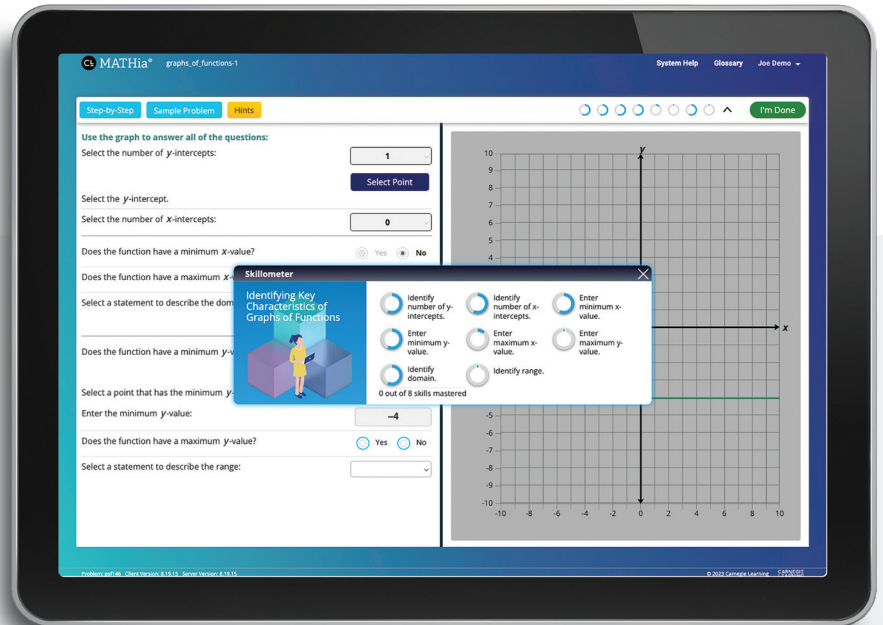
--Jane Dehaan, Teacher and  
Carnegie Learning Customer  
Hickory Creek Middle School  
Frankfurt, IL





# MATHia: Your Georgia Milestones strategy

MATHia elevates student achievement in Georgia with content aligned to the Georgia Mathematics standards. Item types modeled after end-of-grade and end-of-course tests empower every student to feel confident at test time.



## Aligned to Georgia Mathematics Standards

MATHia magnifies the teacher's impact by giving each student their own math coach. By focusing on specific skills, MATHia helps students accelerate to grade level and beyond.



## Aligned to Georgia Milestones

MATHia is a powerful tool that prepares students for the end-of-grade and end-of-course test. It offers routine practice with technology-enhanced problem types, including an equation editor, text entry, and technology-enhanced tools like digital graphing and number lines.

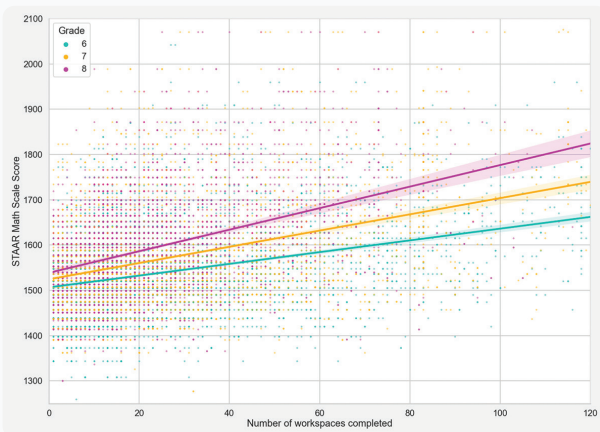
# More MATHia = Better outcomes

Proven success! Data from 10,000 middle school students can't be wrong: Those who engaged deeply with MATHia outperformed their peers who completed fewer workspaces. The more students immersed themselves in MATHia, the more they excelled.

## The best formative assessment tool for success

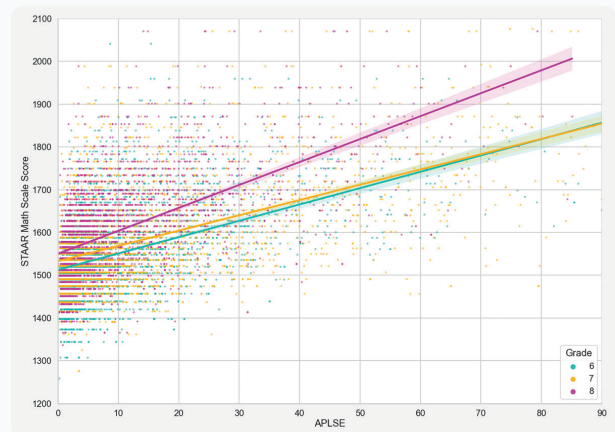
The Adaptive Personalized Learning Score (APLSE) report in MATHia is like your crystal ball. It can accurately predict a student's proficiency level on the end-of-year exam. The secret? Consistent, regular practice in MATHia drives the most accurate APLSE score.

On average, a student who completed ten additional workspaces saw an end-of-year exam scale score **increase of 13–25 points**.



▲  
*Data shows a strong correlation between the number of workspaces completed and the student's end-of-year exam scale score.*

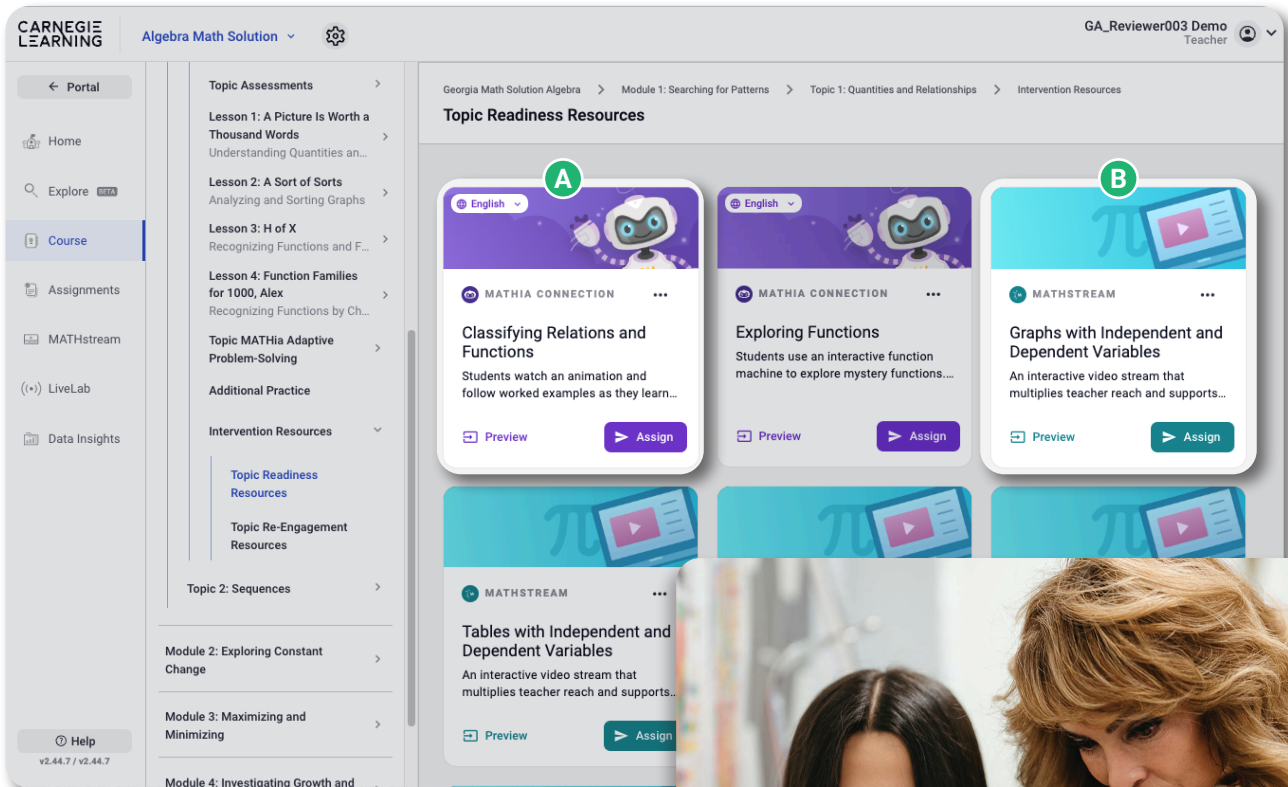
When a student raised their APLSE score by 10%, there was an **increase of 38–54 points** on the end-of-year exam!



▲  
*Data shows a strong correlation between end-of-year exam performance and the APLSE metric.*

# Engage students and empower teachers

A cutting-edge digital experience captivates students and streamlines instructional decisions, making teaching and learning more effective and enjoyable.



▲  
*With the Clear Learning Center, you can easily view, download, and assign lesson materials in one place, ensuring smooth course navigation and effective lesson planning.*



## Monitor progress and measure performance

As a regular part of the instructional cycle, ongoing assessment underlies the entire learning experience. With auto-scored, technology-enhanced resources, students develop the ability to evaluate themselves and improve over time, while teachers gain insights to inform real-time adjustments and plan next steps.

- A** **MATHia** engages students with personalized, lesson-specific practice and broader topic review. It empowers teachers with real-time progress tracking to measure and inform instruction.
- B** **MATHstream** provides adaptive video instruction for topic readiness, lesson reinforcement, and re-engagement, giving students targeted support and teachers actionable insights into performance.



# Digital tools for teaching and learning

**Topic Summary**  
Available online, a **Topic Summary** reviews the main concepts for the topic.

**Essential Ideas** for each lesson

Log in to MyCL for digital resources

A printable version available for download

A video of the worked example being solved

Click to view Worked Example Video

**MATHia Workspaces** are highlighted in select lessons to help you understand the connections and what you might want to review.

**C** The digital **Teacher Implementation Guide** allows you to toggle answers on or off and includes embedded links to key resources:

- Module Overview Videos
- Topic Summaries
- Worked Example Videos
- Mixed Practice Pages
- Skills Practice Pages
- Home Connection Website
- Family Guides
- Activity Resources
- Lesson Planning Templates

Preview A Sort of Sorts: Digital Lesson

Module 1: Searching for Patterns

**LESSON 1 ASSIGNMENT**  
Use a separate piece of paper for your Journal entry.

**JOURNAL**  
Describe how you can distinguish between an independent quantity and a dependent quantity. Use an example in your description.

**REMEMBER**  
When one quantity depends on another in a problem situation, it is the dependent quantity. The quantity it depends upon is the independent quantity. You represent the independent quantity on the x-axis and the dependent quantity on the y-axis.

**PRACTICE**  
Read each scenario and identify the independent and dependent quantities. Be sure to include the appropriate units of measure. Then, determine which graph models the scenario.

1. **Endangered Species**: The initial population of 450 endangered turtles tripled each year for the past five years.

2. **Video Games**: Gillian starts with \$40 and is playing games that cost 50 cents per game.

3. **Sales Commission**: Julian receives \$3000 per month and a 10% commission on the amount of sales.

4. **Cooling Tea**: A cup of tea cools rapidly from 180°F and then slows down gradually as it nears room temperature.

**A B C D**

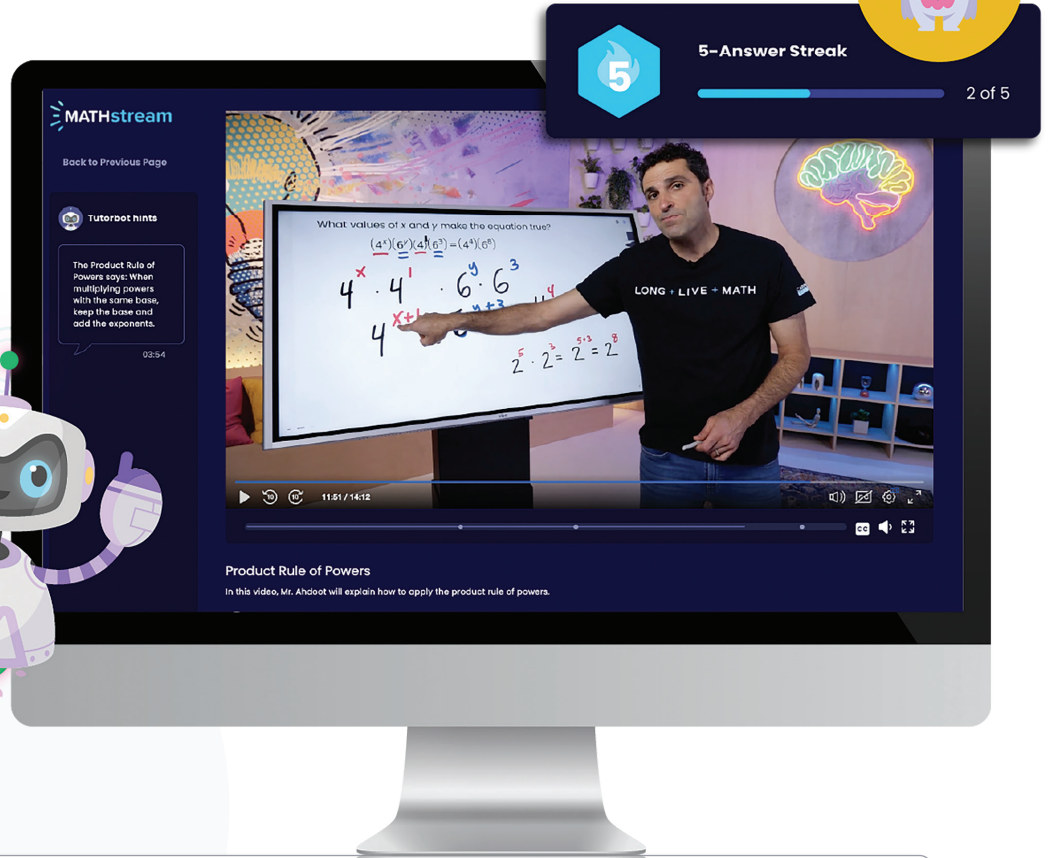
**D** **Desmos** tools are seamlessly integrated into teaching and learning through the Clear Learning Center.

**E** **LiveHint®**, hosted by our conversational chatbot and accessible on any device, provides real-time hints on textbook assignments. Visit [www.livehint.com](http://www.livehint.com) to learn more.

# Multiply teacher reach

With the addition of MATHstream™ to support classroom differentiation, teachers have more time to engage with students in collaborative learning activities that extend thinking and enhance deeper learning.

MATHstream is an adaptive, interactive video streaming program where certified teachers deliver targeted instruction. MATHstream's interactive videos adapt to address students' needs, allowing teachers to rotate between small groups and provide focused support effectively.



## Flexible materials for a scalable solution



*The cycle of support: By combining the Georgia Math Solution + MATHstream, teachers have all the tools they need to meet students where they are and get them to where they need to be.*

# Components

## Teacher Resources

### Teacher Implementation Guide (TIG)

The TIG provides easy-to-implement resources for planning and point-of-use facilitation.

- Module and Topic Overviews
- Lesson Resources
  - Step-by-step guidance to support facilitation and deepen understanding
  - Embedded supports
    - Differentiation Strategies
    - Common Misconceptions and Student Look-fors
    - Questions to Support Discourse
    - ELL strategies to support multilingual learners
    - Introductory lesson to establish classroom culture
    - Ongoing informal assessment support

### Digital Resources

The Clear Learning Center provides access to resources for planning and implementation support.

- Digital Teacher Implementation Guide
  - Downloadable resources at point of use, including:
    - Module Overview Videos
    - Topic Summaries
    - Worked Example Videos
    - Mixed Practice Pages
    - Skills Practice Pages
    - Home Connection Website
    - Family Guides
    - Activity Resources
    - Lesson Planning Templates
- Practice
- Assessments
- MATHia personalized instruction
- LiveLab real-time student data
- MATHstream adaptive, interactive instructional videos
- Class and student-level reports
  - Adaptive Personalized Learning Score (APLSE) Report
  - Progress Report
  - Session Report
  - Skills Report
  - Standards Report

## Student Resources\*\*

### Interactive Text

A consumable textbook for learning and self-reflection

- Lessons activate prior knowledge
- Minds-on activities drive student ownership of learning
- Formative assessments allow students to demonstrate their understanding
- Assignments for practice

### Digital Resources

The Clear Learning Center provides students and families with access to digital resources for learning, practice, and assessment.

- Interactive Text
  - Desmos Calculators: Scientific, Function, Graphing, Geometry Tools
  - LiveHunt real-time support for textbook assignments
  - MATHstream: Adaptive, interactive instructional videos
  - MATHia: AI-driven, one-to-one online coaching software that adapts to meet individual student needs
    - Step-by-step instruction for concept development and skills mastery
    - On-demand hints support student agency
    - Just-in-time hints provide personalized intervention

\*\*Available in English and Spanish



# We're all in on Georgia math education

The Georgia Math Solution is a fully customized 6-12 curriculum that aligns to the Georgia Mathematics Standards and the Georgia Curriculum Maps. By combining textbooks, digital tools, and MATHia, we deeply engage students and provide real-time insights for teachers and administrators.



## How do we know that every student is a math person?

We've got 25 years of experience as the leading provider of research-based math solutions—proven to deliver up to 2x performance improvement on standardized tests—and a team of cognitive and computer scientists who are dedicated to tirelessly finding new and better ways to support teachers and students.

***That's how we know every student is a math person.***

