

Reveal the Power and Possibility of Math!

Reveal $Math^{\mathsf{m}}$ includes a wealth of print and digital resources that lead to mastery of the standards.



Every classroom is unique, and each student is different in terms of knowledge level and learning style. Teachers need a set of tools as diverse as their students. Reveal Math meets this need by providing students the positive mindset, confidence, and skills to achieve mastery of math standards while giving teachers an effective, flexible way to assess understanding and adapt instruction for every learner. Informed by the latest research on how students learn best, Reveal Math ensures students don't just meet the standards—they master them!

Reveal CUriosity with mathematical exploration and discovery that deepens conceptual understanding.

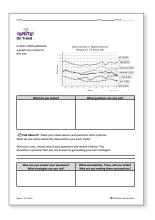
Reveal understanding with insightful instructional resources to more effectively differentiate and promote a positive student mindset.

Reveal possibilities with purposeful technology that creates an active classroom experience.

The Science of Learning Meets the Art of Teaching

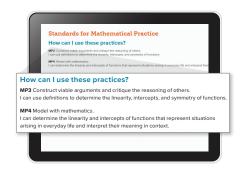
The evolving field of educational research drove the approach of *Reveal Math*. Our team was inspired by esteemed publications such as *Principles to Actions* (NCTM), *Mathematical Mindsets* (Jo Boaler), and *Making Sense of Math* (Cathy Seeley), as well as learning models including Bloom's Taxonomy and Webb's Depth of Knowledge Guide. This solid foundation of academic research and direct feedback from hundreds of educators just like you ensures that *Reveal Math* represents the cutting-edge of best practices in mathematics instruction.

Research-Based Best Practices



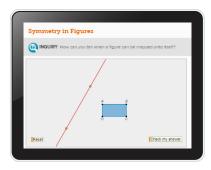
Spark Students to Ask "Why?"

Ignite! Activities are designed to spark student curiosity and motivate them to ask questions, solve complex problems, and develop a can-do approach to mathematics.



Build Students' Confidence in Their Abilities

Learning targets in the form of "I Can" statements appear at the beginning of each lesson to communicate the lesson objective in student-friendly language.



Nurture Curiosity with Rich Tasks

Online **Explore** activities begin with an open-ended question and require deep conceptual thinking from the learner. At the end of the **Explore** activity, students apply their learning in order to answer the **Inquiry Question.** The focus is on student exploration and reasoning, not just getting the right answer.

The expert advisor team behind Reveal Math includes thought leaders at the forefront of mathematics education.



Cathy L. Seeley, Ed.D. Author, Educator, and NCTM President 2004–2006



Raj Shah, Ph.D. Founder of Math Plus Academy, a STEM enrichment program

Reveal Math teaches students how to think not what to think!



What values of *x* might be easiest to use when graphing a linear equation when the *x*-coefficient is a whole number? Justify your argument.

Talk About It!

Why is the slope for vertical lines always undefined? Justify your argument.

Talk About It!

What do you notice about the symmetry, extrema, and end behavior of the function?

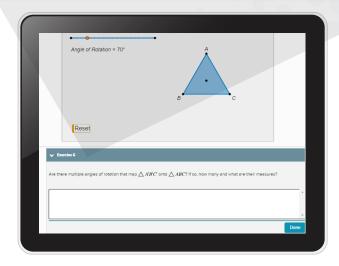
Talk About It!

How is the value of α in an absolute value function related to slope? Explain.

Improve Communication While Deepening Comprehension

Talk About It! prompts build mathematical discourse skills as students learn to clarify their thinking and defend their rationale.





Teach the Value of Perseverance

Problems with multiple solution paths encourage **productive struggle** and challenge student thinking.



Cheryl R. Tobey, M.Ed.
Mathematics Program Director
at Maine Mathematics and
Science Alliance (MMSA)



Nevels Nevels, Ph.D.
PK–12 Mathematics
Curriculum Coordinator for
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Dinah Zike, M.Ed. President of Dinah.com in San Antonio, Texas, and Dinah Zike Academy



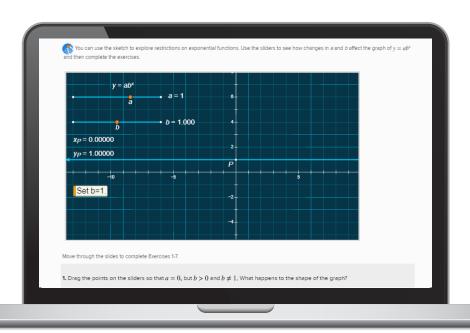
Walter Secada, Ph.D. Professor of Teaching and Learning at the University of Miami

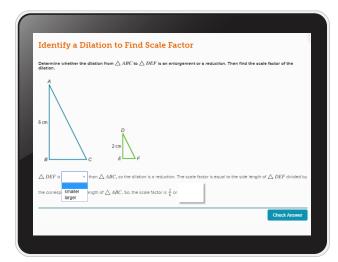
What If Math Class Were the Most Exciting Class of the Day? It Can Be!

Reveal Math supports both low-tech and high-tech classrooms. The blended print and digital instructional model captures the best of both modalities and brings them together in a seamless experience that makes math meaningful for your students.



Web Sketchpad® activities included with the program enhance understanding by dynamically demonstrating math concepts in action.





Prepare Students for Computer-Based Testing

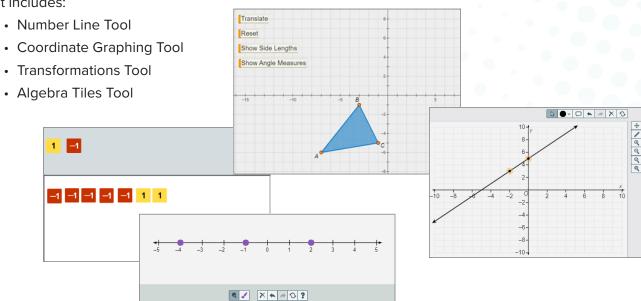
Technology-enhanced items provide students the valuable practice they need to master computer-based assessments. These items include:

- · Drag-and-drop
- Equation editor problems
- Multiselect
- · Open response

Utilize Digital Tools for Problem-Solving

Embedded within lessons, this convenient collection of **eTools** builds a bridge from conceptual understanding to procedural fluency.

It includes:







Explore, Model, and Apply Math

The best-in-class **Desmos scientific calculator,** easily accessible in *Reveal Math,* allows students to utilize the same resource that appears on many common standardized tests.

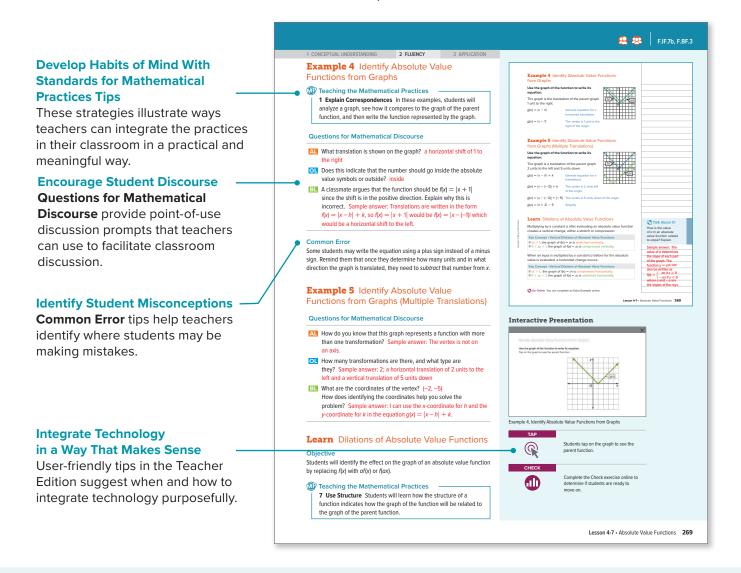


Motivate with Truly Enjoyable Technology

Designed with student engagement in mind, the digital resources in *Reveal Math* include **animations, videos,** and **interactive problems** to enhance context and learning.

Drive Learning With Student-Centered Instructional Tools

In *Reveal Math*, the Teacher Edition centers around opportunities to promote mathematical discourse, collaboration, and a positive student mindset.



Online Professional Learning Support: Ready When You Are

Reveal Math features a digital library of self-paced professional learning videos and modules, including:

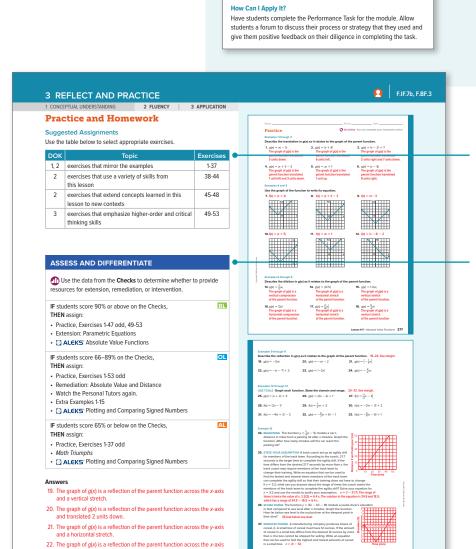
Program Implementation Support

The **Quick Start eLearning Module** explains program basics.

Plan, Teach, and Assess eLearning Modules provide deep-dives of the program instructional model and resources.

Digital Platform Support

The **Technical Support Resource Library** provides step-by-step instructions for the digital tools.



Mindset Matters
Reward Effort, Not Talent

When adults praise students for their hard work toward a solution, rather than praising them for being smart or talented, it supports students'

development of a growth mindset. Reward *actions* like hard work, determination, and perseverance instead of *traits* like inherent skill or talent.

Fuel Growth by Encouraging a Positive Mindset

Mindset Matters tips at the beginning of each module provide strategies for encouraging a growth mindset and productive approaches to problem-solving.

Address Student Needs Based on Their Depth of Knowledge (DOK)

DOK charts in the Teacher Edition recommend which exercises to assign to students based on their needs.

Provide In-the-Moment Differentiation

An **Assess and Differentiate** feature at the end of each lesson provides suggestions to reach every learner.

Ongoing Pedagogy Support

• Classroom Videos model lessons from a real classroom.

and translated 7 units right and 3 units up.

and a horizontal compression.

23. The graph of g(x) is a reflection of the parent function across the y-axis

- Math Misconception Videos address common misconceptions and strategies to help students overcome them.
- **Content and Pedagogy Videos** provide tips for teaching difficult math concepts.

Lesson 4-7 • Absolute Value Functions 277-278

- Interviews with Experts examine the "why" behind the math and best practices.
- Content Progression Resources show the progression of math concepts from elementary through high school math.



Reveal Math Meets You Where You Are and Goes Where You're Growing

Lesson Model

Launch



The Warm Up covers the prerequisite skills needed for the lesson.

Teachers can also project the "What Vocabulary Will You Learn?" and "Today's Standards" slides to review what topics will be covered in the lesson with their class.



LAUNCH THE LESSON

In Launch the Lesson, teachers utilize a hook to engage students and pique their interest.

Talk About It! prompts initiate student thinking about the lesson content.

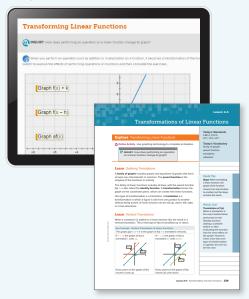
EXPLORE .

Students complete rich tasks in online Explore activities while working in collaborative groups, allowing them to share ideas and approaches with their peers.

Explore and Develop

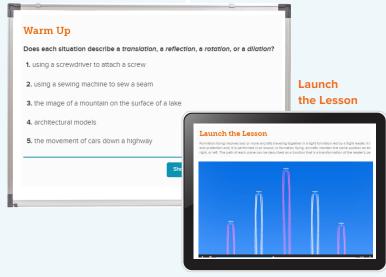
Study Tips and Watch Out! tips in the print Interactive Student Edition help focus student attention.

Explore



Teachers can project the digital features, or students can access them on their own devices.

Warm Up





The abundant print and digital resources within Reveal Math intersect in a meaningful way to heighten the learning experience. Interactive print and digital tools increase student engagement while simultaneously deepening comprehension. The Reveal Math classroom is an active classroom experience that brings math to life!

Reflect and Practice



In the **Learn** portion of the lesson, students' understanding is formalized through guided instruction.

Teachers can use the aligned print and digital content to create the most effective instructional pathway for their students.

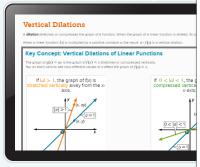


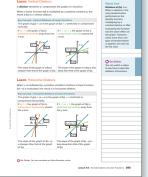
EXAMPLES & CHECK

Students work through one or more **Examples** tied to the key concepts, followed by a quick Check (formative assessment) to measure their understanding.

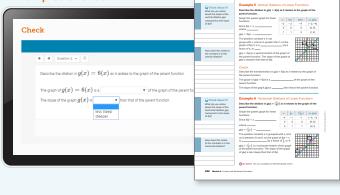
Examples and Checks can be completed in the print Interactive Student Edition or online. When Checks are completed online, performance data is instantly captured for the teacher.

Learn





Examples & Check



EXIT TICKET

The Exit Ticket provides a quick formative assessment opportunity that encourages students to reflect on their learning.

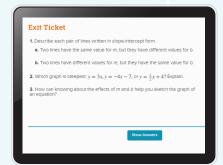
Write About It! prompts provide an opportunity for students to integrate writing skills in the math classroom.



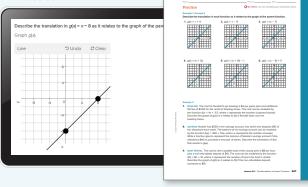
Students complete the Practice either online or in their print Interactive Student Edition to apply what they've learned and build procedural fluency.

When the Practice is completed online, performance data is instantly captured for the teacher.

Exit Ticket

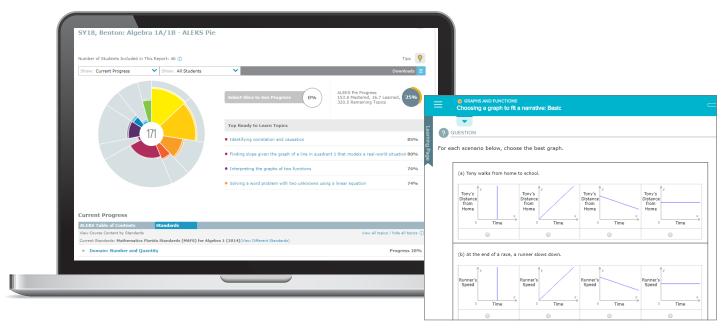


Practice



Support Every Student

Reveal Math empowers teachers with the tools they need to provide in-the-moment differentiation and deliver insightful instruction that reaches every learner.



ALEKS®

Reveal the Power of Personalized Learning

ALEKS® is an online math solution for Grades 6–12 that uses adaptive technology to identify and provide instruction on the topics each student is most ready to learn. Through a continuous cycle of assessment, learning, and reinforcement, ALEKS develops a personalized learning path for each student to ensure measurable success.

Benefits of Using ALEKS:

- · Provide standards-based instruction
- Focus on appropriate topics to prevent boredom or frustration
- · Offer bilingual courses in English and Spanish
- Easily differentiate with remediation, on-level, and enrichment opportunities
- Pie reports allow you to see which students know the concepts in each module's topic and adjust instruction as appropriate
- Access dynamic data at the student, class, school, and district level to inform classroom instruction



Build Language Skills in the Math Classroom

The **Language Development Handbooks** empower teachers to meet the language needs of all learners.

The Language Development Handbook Student Edition includes:

- Word Cards.
- · Vocabulary Squares.
- Three-Column Charts (with English/Spanish cognates).
- Definition Maps.
- · Concept Webs.
- Cornell Notes.

The Language Development Handbook Teacher Edition includes:

- English Learner Instructional Strategies.
- English Language Development Leveled Activities.
- Multicultural Teacher Tips.





Resources for Spanish Speakers

- Spanish Interactive Student Edition for Algebra 1, Geometry, and Algebra 2
- Language Development Handbook for Algebra 1, Geometry, and Algebra 2 (Teacher and Student Editions)
- Spanish Personal Tutors
- Multilingual eGlossary
- · ALEKS Bilingual Courses in Spanish

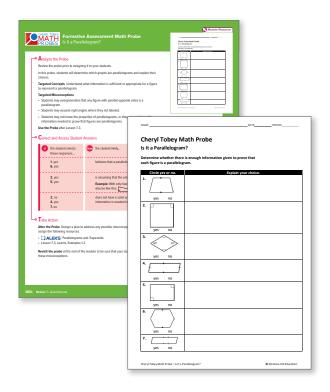
Assessment

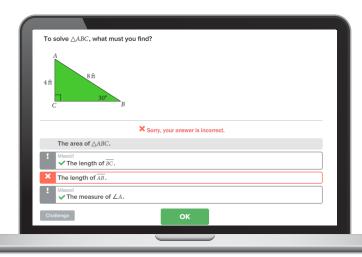
With *Reveal Math*, students apply their deep, authentic learning to a variety of assessments in order to demonstrate that they can explain both the *what* and the *why* of mathematics—not just the *how*.

Teach Students that Mistakes are an Opportunity for Growth

Formative Assessment Math Probe—exclusive to McGraw-Hill Education!

Students complete an activity that is designed to target common misconceptions about a particular mathematical concept. Teacher resources include support for diagnosing and correcting these misconceptions.

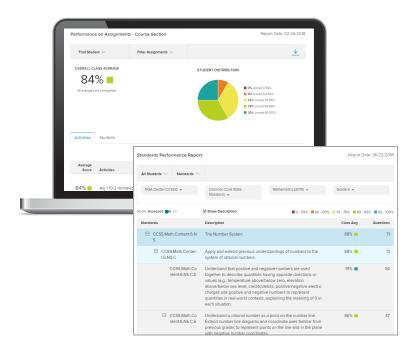




Ensure Topic Mastery

LearnSmart®, included with *Reveal Math*, provides students with access to an online, interactive study tool.

LearnSmart assesses a student's proficiency and knowledge within a specific course, tracks which topics have been mastered, and identifies areas that need more study.



Drive Instruction with Actionable Data

By drawing on performance data from student assessments and activities, the *Reveal Math* reports and recommendations provide teachers and administrators with the information they need to monitor and adjust instruction on a daily basis.

Activity Report

- · Overall class or student average score
- Overall class or student progress over time
- Performance by activity type (e.g., homework, quiz, exam)
- · Average score per activity

Standards Report

Class and individual average score per standard, skill, or objective.

Recommendations Report

Suggested resources that can be assigned to any student in that group based on their performance.

Administrator Report

Activity, standards, progress, and usage reports.

Assessment Options

Diagnostic Assessment

- Diagnostic and Placement Test, with Scoring Guide
- Module Pretests

Formative Assessment

- Cheryl Tobey Formative Assessment Math Probes
- Checks
- Exit Tickets
- Put It All Together

Summative Assessment

- · Leveled Module Tests
- Module Review
- Module Vocabulary Tests
- · End of Course Test
- Performance Tasks
- LearnSmart

PLUS—Build your own assessments with access to question banks featuring technology-enhanced items.

The K–12 Solution for Today's Mathematics Classroom

Reveal Math is a coherent, vertically aligned K–12 core math solution that empowers educators to uncover the mathematician in every student through powerful explorations, rich mathematical discourse, and timely individualized learning opportunities.

COMING SOON!

Reveal
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Visit **revealmath.com/9-12** to sample online and access a trial of the digital resources, or contact your sales representative at **mheducation.com/contact** to request a presentation.

