

Reveal the Power and Possibility of Math!

Reveal Math® 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

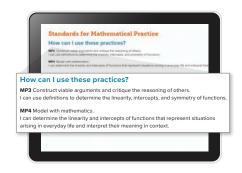
The evolving field of educational research drove the approach of *Reveal Math*. Our team was inspired by esteemed publications such as *Principles to Actions* (NCTM), *Mathematical Mindsets* (Jo Boaler), and *Making Sense of Math* (Cathy Seeley), as well as learning models including Bloom's Taxonomy 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



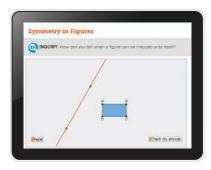
Spark Students to Ask "Why?"

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?

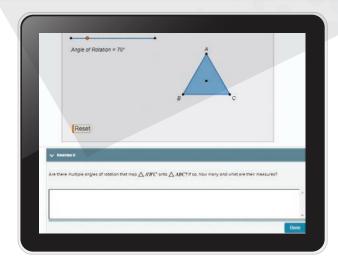
Talk About It!

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



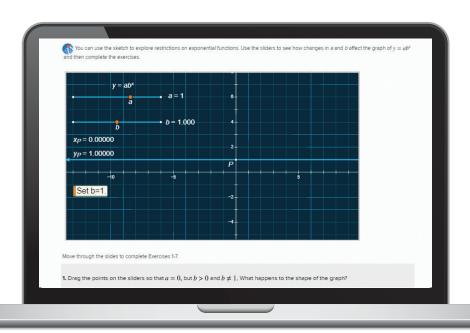
Walter Secada, Ph.D. Professor of Teaching and Learning at the University of Miami

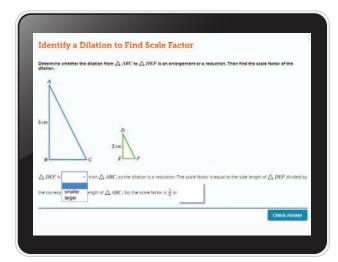
What If Math Class Were the Most Exciting Class of the Day? It Can Be!

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

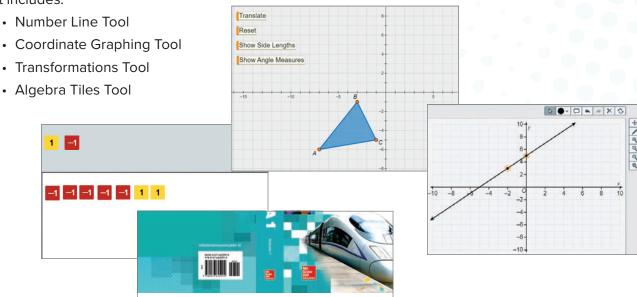
Technology-enhanced items provide students the valuable practice they need to master computer-based assessments. These items include:

- · 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.

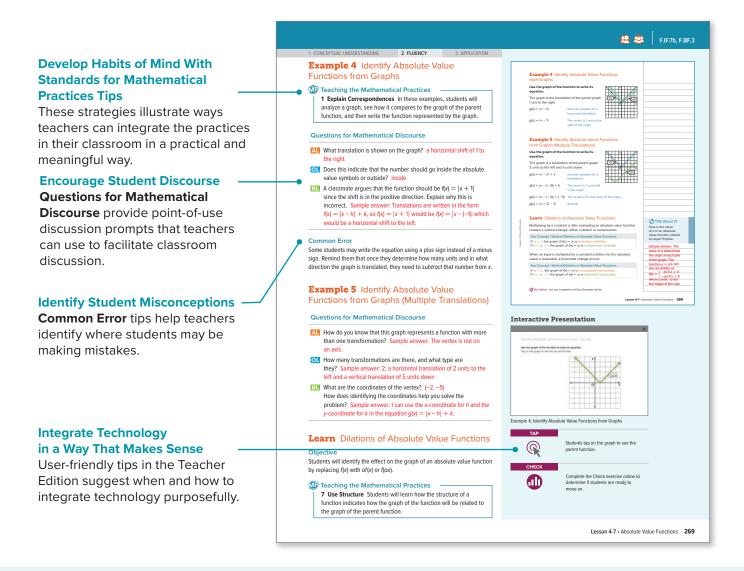


Motivate with Truly Enjoyable Technology

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 includes access to a library of self-paced professional learning videos and modules, including:

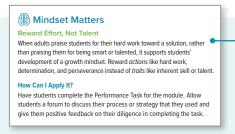
Program Implementation Support

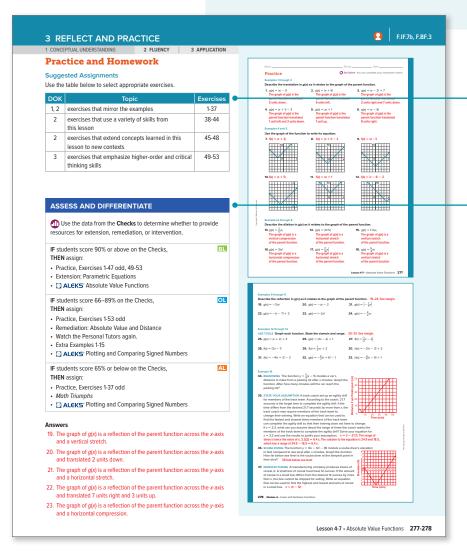
The **Quick Start eLearning Module** explains program basics.

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.





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.
- Math Misconception Videos address common misconceptions and strategies to help students overcome them.
- Interviews with Experts examine the "why" behind the math and best practices.



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.

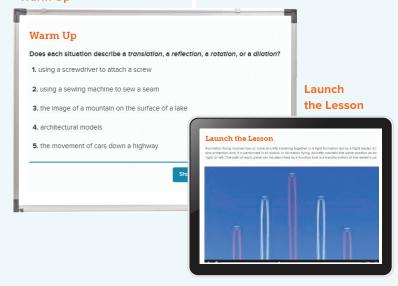


LAUNCH THE LESSON

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.

Warm Up





Explore and Develop

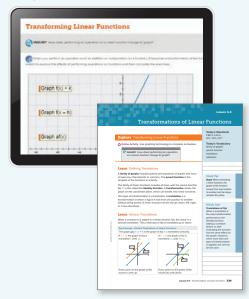


EXPLORE .

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

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.

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!



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.

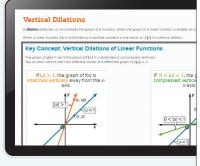


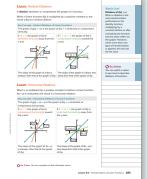
EXAMPLES & CHECK

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

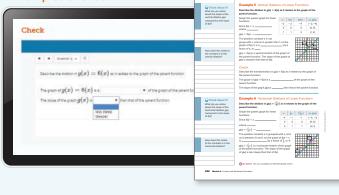
Examples and Checks can be completed in the print Interactive Student Edition or online. When Checks are completed online, performance data is instantly captured for the teacher.

Learn





Examples & Check



Reflect and Practice

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

EXIT TICKET

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

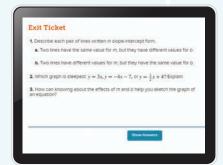


PRACTICE

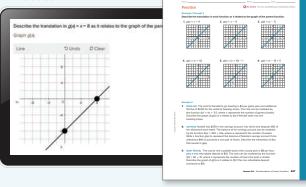
Students complete the Practice either online or in their print Interactive Student Edition to apply what they've learned and build procedural fluency.

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

Exit Ticket

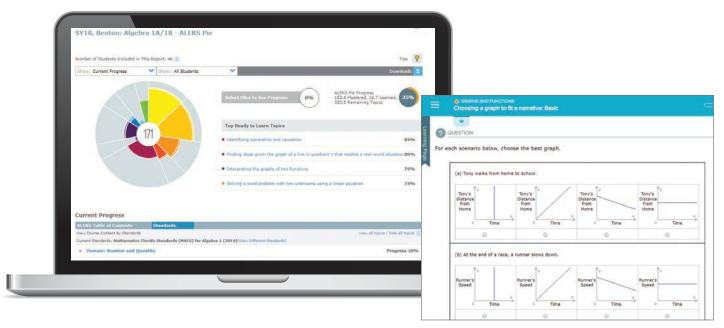


Practice



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 3–12 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.

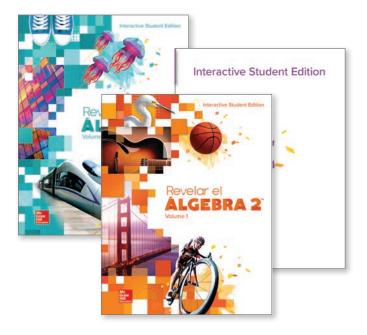
The Language Development Handbook Student Edition includes:

- 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

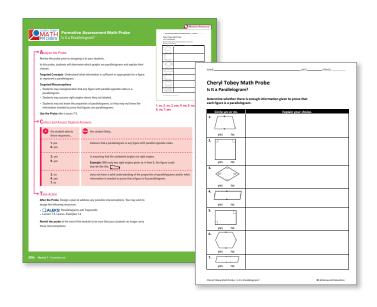
Practice and Assessment

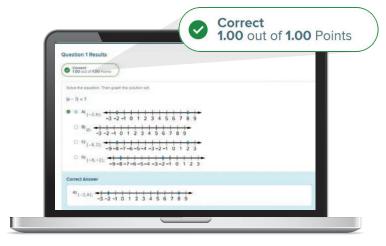
With *Reveal Math*, students apply their learning in a variety of practice options and assessments to demonstrate that they can explain both the what and the why of mathematics—not just the *how*.

Teach Students That Mistakes Are an Opportunity for Growth

Each module features a **Cheryl Tobey Formative Assessment Math Probe**—
exclusive to McGraw Hill!

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.





Provide Students Rich Practice Opportunities

Every lesson includes a variety of practice sets that provide students varied question type formats, immediate feedback, support, and multiple question attempts. Extra practice sets are also available to be assigned at the teacher's discretion. When assigned digitally, student work is auto-scored to reduce the time invested in manual grading.

Assessment Options

Diagnostic Assessment

- Diagnostic and Placement Test with Scoring Guide
- Module Pretests

Formative Assessment

- Cheryl Tobey Formative Assessment Math Probes
- · Checks

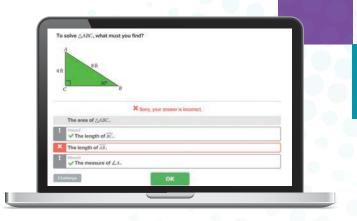
- Exit Tickets
- Put It All Together
- LearnSmart®

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 prior to mid-year or end-of-course assessments.





Drive Instruction With Actionable Data

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

Administrator Report

Activity, standards, progress, and usage reports

MAP Growth RIT Scores

Review RIT scores through two unique reports that demonstrate performance by domain and overtime*

"*MAP Growth reports available when you link your NWEA account."

Summative Assessment

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

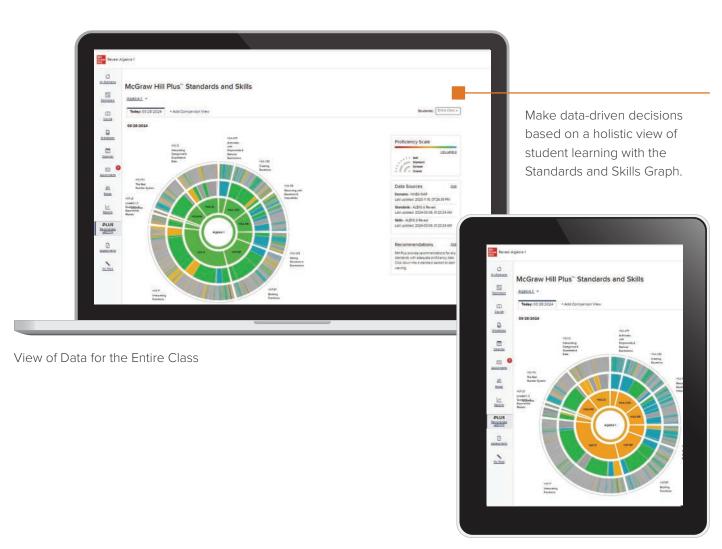
PLUS

Build your own assessments with access to question banks featuring technologyenhanced items.

McGraw Hill Plus[™]: Charting Unique Paths to Growth

The McGraw Hill Plus^M data and assessment tool for PreK–12 simplifies teachers' daily workflow by connecting data from students' online learning interactions in *Reveal Math*^M and *ALEKS*^M with interim assessment data to create a holistic picture of student learning in math through the **Standards and Skills Graph.**

Real-time insights aligned to standards and skills help teachers make data-driven decisions and support students' unique paths to math growth—and the data stays with each student from year to year. McGraw Hill Plus also surfaces skill-based **Personalized**Learning Recommendations at the time of need within the current *Reveal Math* lesson for individual students and provides turnkey Small Group Teacher-Guided Lessons for dynamic, proficiency-based student groups needing remediation, on-level, learning, and extension on every standard.



View for Individual Student Data

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.



Learn more about Reveal Math!

Visit **revealmath.com/clickinside** to sample online and access a trial of the digital resources.

Visit **mheducation.com/contact** to request a presentation from your McGraw Hill Sales Representative.



