Program Overview
Grades 9–12

Reveal MATH
Integrated I • Integrated II • Integrated III

Reveal the Full Potential in Every Student

revealmath.com
Reveal the Power and Possibility of Math!

*Reveal Math™ Integrated* 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 Integrated* 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 Integrated* 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
When an input is multiplied by a constant, the graph is a translation of the parent graph equation.

Use the graph of the function to write its equation.

Example 4

Example 6

The graph is the translation of the parent graph function

Example 7

Slopes of Horizontal Lines

The slope of a line is undefined, write undefined.

\[
\text{Step } 3
\]

Graphing Linear Functions by Using Tables

You can watch a video by making a table.

Table of values as an argument.

Graph by Making a Table

You can complete an Extra Example online.

Graphs

Identify Absolute Value Functions

How is the graph of a linear function related to slope? Explain.

The graph is a translation of the parent graph function.

Example 2

Graphing Linear Functions

Go Online

Reveal Math

Teach the Value of Perseverance

Today’s Standards

How is the graph of a linear function related to slope? Explain.

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 Hazelwood School District

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

Improve Communication

While Deepening Comprehension

Talk About It! prompts build mathematical discourse skills as students learn to clarify their thinking and defend their rationale.
What If Math Class Were the Most Exciting Class of the Day? It Can Be!

*Reveal Math Integrated* 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.

### Visualize Math Concepts in Action

*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:

- Number Line Tool
- Coordinate Graphing Tool
- Transformations Tool
- Algebra Tiles Tool

Explore, Model, and Apply Math

The best-in-class Desmos scientific calculator, easily accessible in Reveal Math Integrated, 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 Integrated include animations, videos, and interactive problems to enhance context and learning.
Drive Learning with Student-Centered Instructional Tools

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

**Develop Habits of Mind with Standards for Mathematical Practices Tips**
These strategies illustrate ways teachers can integrate the practices in their classroom in a practical and meaningful way.

**Encourage Student Discourse Questions for Mathematical Discourse** provide point-of-use discussion prompts that teachers can use to facilitate classroom discussion.

**Identify Student Misconceptions**
**Common Error** tips help teachers identify where students may be making mistakes.

**Integrate Technology in a Way That Makes Sense**
User-friendly tips in the Teacher Edition suggest when and how to integrate technology purposefully.

**Online Professional Learning Support: Ready When You Are**

*Reveal Math Integrated* 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**
Practice and Homework
Suggested Assignments
Use the table below to select appropriate exercises.

<table>
<thead>
<tr>
<th>DOK</th>
<th>Topic</th>
<th>Exercises</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2</td>
<td>exercises that mirror the examples</td>
<td>1–35</td>
</tr>
<tr>
<td>2</td>
<td>exercises that use a variety of skills from this lesson</td>
<td>36–42</td>
</tr>
<tr>
<td>3</td>
<td>exercises that extend concepts learned in this lesson to new contexts</td>
<td>43–48</td>
</tr>
<tr>
<td>4–7</td>
<td>exercises that emphasize higher-order and critical thinking skills</td>
<td>49–52</td>
</tr>
</tbody>
</table>

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.

How Can I Apply It?
Help students complete the Performance Task for the module. Allow students a forum to discuss their process or strategy that they used and give them positive feedback on their diligence in completing the task.

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.
- **Content and Pedagogy Videos** provide tips for teaching difficult math concepts.
- **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 Integrated Meets You Where You Are and Goes Where You're Growing

Lesson Model

Launch

Warm Up

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 and Develop

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

Transforming Linear Functions

Launch the Lesson

Transformations of Linear Functions

Teachers can project the digital features, or students can access them on their own devices.
The abundant print and digital resources within *Reveal Math Integrated* 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 Integrated* classroom is an active classroom experience that brings math to life.

---

**Reflect and Practice**

**LEARN**

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.

**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.

**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.
Support Every Student

*Reveal Math Integrated* 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.
Resources for Spanish Speakers

- Language Development Handbook *(Teacher and Student Editions)*
- Spanish Personal Tutors
- Multilingual eGlossary
- Full Audio Read
- ALEKS Bilingual Courses in Spanish

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.
Assessment

With *Reveal Math Integrated*, 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

Each module features a Cheryl Tobey 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 Integrated*, 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.
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.

Drive Instruction with Actionable Data

By drawing on performance data from student assessments and activities, the Reveal Math Integrated 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.
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!

<table>
<thead>
<tr>
<th>K–5</th>
<th>6–8</th>
<th>9–12</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Book Cover" /></td>
<td><img src="image2.png" alt="Book Cover" /></td>
<td><img src="image3.png" alt="Book Cover" /></td>
</tr>
<tr>
<td><img src="image4.png" alt="Book Cover" /></td>
<td><img src="image5.png" alt="Book Cover" /></td>
<td><img src="image6.png" alt="Book Cover" /></td>
</tr>
<tr>
<td><img src="image7.png" alt="Book Cover" /></td>
<td><img src="image8.png" alt="Book Cover" /></td>
<td><img src="image9.png" alt="Book Cover" /></td>
</tr>
<tr>
<td><img src="image10.png" alt="Book Cover" /></td>
<td><img src="image11.png" alt="Book Cover" /></td>
<td><img src="image12.png" alt="Book Cover" /></td>
</tr>
</tbody>
</table>

Learn more about *Reveal Math Integrated*

Visit [revealmath.com](http://revealmath.com) to sample online and access a trial of the digital resources, or contact your sales representative at [mheducation.com/contact](http://mheducation.com/contact) to request a presentation.