

Program Overview Grades 9–12



Integrated I • Integrated II • Integrated III

Reveal the Full Potential in Every Student



revealmath.com/integrated

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



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

Reveal Math

how to think-

teaches students

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

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.



Determine diletion.	whether the dilatio	n from $\triangle ABC$ to \triangle	DEF is an enlargem	ent or a reduction. The	n find the scale factor of t	the
6 cm	c					
△ DEF is	+ then	ABC, so the diletio	n is a reduction. The so	ale factor is equal to th	e side length of \triangle DEF (divided by
the corresp	smaller larger	of \triangle ABC. So, the so	sie factor is $\frac{2}{6}$ or			
-					Check	Answer

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

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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.



Online Professional Learning Support: Ready When You Are

Reveal Math Integrated features a digital library of selfpaced 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.

How Can I Apply It?

Have 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.

B REF	LECT AND PR	ACTICE			
CONCEPT	UAL UNDERSTANDING	2 FLUENCY	3 APPLICATION		
Pract	ice and Hom	ework			Practice State We can compare your homework
lse the ta	able below to select app	ropriate exercises.			Describe the translation in g(x) as it relates to the graph of the parent function. 1. $g(x) = \omega - 5$ 2. $g(x) = k + 61$ 3. $g(x) = k - 21 + 7$ The graph of g(x) is the The sequel of g(x) is the The graph of g(x) is the G(x) is the graph of g(x) is the G(x) is the G(x) is the graph of g(x) is the The graph of g(x) is the G(x) is
DOK	То	pic	Exercises	•	5 units down. 6 units left. 2 units right and 7 units
1, 2 e	exercises that mirror the	examples	1–35		
2 e	exercises that use a varie	ty of skills from this les	son 26-42		parent function translated parent function translated parent function translated 1 unit left and 3 units down. 1 unit up. 8 units right.
2 e	exercises that extend con esson to new contexts	ncepts learned in this	43-48		Complex 4 and 5 Use the spape of the function to write its equation. 7
3 e t	exercises that emphasize hinking skills	e higher-order and crit	ical 49–52		
ASSE Use resourc	SS AND DIFFEREI e the data from the Check es for extension, remed	NTIATE :ks to determine whet iation, or intervention.	her to provide		
IF stude THEN a: • Practi • Exten • 🖸 AL	ents score 90% or more ssign: ice, Exercises 1–47 odd, ision: Parametric Equatio .EKS ⁻ Absolute Value Fi	on the Checks, 49–52 ons unctions	BL		$\label{eq:second} \begin{split} & (y)=y+y+1 & (y)=y+y+y+1 & (y)=y+y+1 & (y)=y+y+y+1 & (y)=y+y+y+1 & (y)=y+y+y+y+y+y+1 & (y)=y+y+y+y+y+y+y+y+y+y+y+y+y+y+y+y+y+y+y$
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• 🖸 Al	EKS Plotting and Com	paring Signed Numbe	rs		22. g(q) = -ix - 7i + 3 23. g(q) = i - 2xi 24. g(q) = -5pri
IF stude THEN a	ents score 65% or less o ssign:	n the Checks,	AL		Dumpies 12 invariants Parallel State the domain and range. 25–33. See margin. 25. g(x) = x + 2 + 3 26. g(x) = (2x - 2 + 1) 27. f(x) = $\frac{1}{ y ^2}x - 2 $
 Practi Reme 	ice, Exercises 1–35 odd diation, Review Resourc	es: Absolute Value an	d Distance		28. $f(t) = 2x - 1 $ 29. $f(t) = \frac{1}{2} x + 2$ 30. $h(t) = -2 x - 3 + 2$
 Quick Arrive 	Review Math Handboo MATH Take Another Loo	k: Special Functions ok			31. $f(x) = -4 x+2 - 3$ 32. $g(x) = -\frac{2}{2} x+6 - 1$ 33. $h(x) = -\frac{2}{4} x-6 + 1$
• 🖸 Al	EKS' Plotting and Com	paring Signed Numbe	rs		Example 15 Determine an absolute value function that models each aituation.
nswers 19. The g and a	raph of g(x) is a reflectior vertical stretch.	of the parent function	across the <i>x</i> -axis		34. ESCALADEA An escalator transh it constants the constant to part of the constant to the constant of the
0. The g and tr	raph of g(x) is a reflectior ranslated 2 units down.	of the parent function	across the x-axis		
21. The g and a	raph of g(x) is a reflectior horizontal stretch.	n of the parent function	across the y-axis		
2. The g and tr	raph of g(x) is a reflectior ranslated 7 units right and	n of the parent function d 3 units up.	across the <i>x</i> -axis		Mixed Exercises MCDELING Graph each function. State the domain and range. Describe how each
23. The g and a	raph of g(x) is a reflection horizontal compression.	n of the parent function	across the y-axis		graph is related to its parent graph. 36-38. See Mod 4 Answer Appendix. 36. (t) = −4 x − 2 + 3 37. (b) = 2x 38. (b) = 2x + 5 278 Module 4 - Linear and Interleaver Functions.
4. The g	raph of $g(x)$ is a reflection vertical compression	of the parent function	across the <i>x</i> -axis		
					Abeolu
					Absolu

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 Integrated Meets You Where You Are and Goes Where You're Growing

Lesson Model



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!

😣 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.

Reflect and Practice

🙉 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.

Exit Ticket



Students complete the **Practice** either online or in their notebook to apply what they've learned and build procedural fluency.

When the **Practice** is completed online, students get immediate feedback and their work is auto-scored for teacher evaluation.



Practice



Learn



Examples & Check





Support Every Student

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

Number of Students Included in This Report: 46 ()		Tid					
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Domain: Number and Quantity	MARS) for Algebra 1 (2014)(View Dimensit Standards)	Progress	28%				
				(b) At the end of a race, a	runner slows down.		

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

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

Practice and Assessment

With *Reveal Math Integrated,* 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 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 prior to mid-year or end-of-course assessments.

88
41
C B
Sorry, your answer is incorrect.
The area of △ABC.
1 Minuell ✓ The length of JC.
X The length of AB.
1 Minest ✓ The measure of ∠A.



Drive Instruction With Actionable Data

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

Administrator Report

Activity, standards, progress, and usage reports

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[™] data and assessment tool for PreK–12 simplifies teachers' daily workflow by connecting data from students' online learning interactions in *Reveal Math*[®] and *ALEKS*[®] 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 Integrated

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

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