Reveal the Power and Possibility of Math!

_Reveal Math™ Accelerated_ 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 Accelerated* for Grade 7 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 Accelerated* 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 Accelerated. 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 Accelerated 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 Accelerated includes thought leaders at the forefront of mathematics education.
Talk About It!

Why are the expressions $3x$ and $3x^2$ not like terms?

Talk About It!

Without using the Distributive Property, what is another way you could add $6n$ and $-8n$?

Talk About It!

When might it be more advantageous to simplify the expression then evaluate versus evaluating first, then simplifying?

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.

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

*Reveal Math Accelerated* 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, a convenient collection of eTools builds a bridge from conceptual understanding to procedural fluency:

Types of eTools include:
• 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 Accelerated, 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 Accelerated include animations, videos, and interactive problems to enhance context and learning.
Drive Learning With Student-Centered Instructional Tools

In *Reveal Math Accelerated*, 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**
Leveled *Questions for Mathematical Discourse* provide point-of-use discussion prompts that teachers can use to facilitate classroom discussion.

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

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#### Teaching the Mathematical Practices

1. **Make Sense of Problems and Persevere in Solving Them**
   Students will be presented with a task. They will first seek to understand it, and then determine possible entry points to solving the problem. As they work to solve the problem, they will evaluate their progress and change direction, if necessary.

2. **Reason Abstractly and Quantitatively**
   As students discuss the *Talk About It!* question encourage them to attend to the meeting of the quantity 3.5 feet, not just how to calculate with it.

3. **Construct Viable Arguments and Critique the Reasoning of Others**
   As students respond to the *Write About It!* prompt, have them make sure their argument uses correct mathematical reasoning. If you choose to have them share their responses with others, encourage the listeners to ask clarifying questions to verify that the reasoning is correct.

#### Questions for Mathematical Discourse

**SLIDE 3**

- **AL** What operation is paired with the variable? addition
- **AL** Read the inequality in words. Sample answer: *x* plus three is greater than ten.
- **OL** How will you undo the addition of 3? Why? Subtract 3 from each side of the inequality. Sample answer: Addition and subtraction are inverse operations.
- **OL** What property of inequality is used to subtract 3 from each side? *Subtraction Property of Inequality*

**SLIDE 3**

- **eTOOL** On Slide 3, students use the Number Line eTool to graph the inequality on the number line.

**CHECK**

- **CHECK** Students complete the Check exercise online to determine if they are ready to move on.
### Module 11 Exit Ticket

#### 3. REFLECT AND PRACTICE

- Then complete the Quick Check.

| ☐ | invalid inference |
| ☐ | inferences |
| ☐ | double line plot |
| ☐ | distribution |
| ☐ | convenience sample |
| ☐ | biased sample |

**What Vocabulary Will You Learn?**

- Find the mean of a data set.

**Example 1**

Find the mean of the data set.

**Quick Check**

1. Find the mean of the data set.

<table>
<thead>
<tr>
<th>Number of Siblings</th>
<th>2</th>
<th>3</th>
<th>6</th>
<th>10</th>
</tr>
</thead>
</table>

**Quick Review**

- What is the mean of the data set?

- **Part A**

  - Determine whether the inference is valid.

  - Decide that about half of the store's juice stock should be orange and half should be cranberry.

  - Selected and surveyed about their juice preference. The results are:

    - Apple: 32%
    - Orange: 51%
    - Cranberry: 3%

  - Every hour, twenty customers in a grocery store are randomly selected and surveyed about their juice preference. At the end of the year, the store has made decisions about the future juice stock based on the surveys.

**Part B**

- Determine whether the sampling method is valid.

  - Yes, the sampling method is unbiased because it is a systematic random sample.

**Mindset Matters**

**Attitude Ownership**

- Part of developing a growth mindset involves acknowledging progress in growth thinking and sharing it with others. It’s important for a student to own his or her mindset, attitude, and beliefs and be proud of the growth. Students should view themselves as people who have a growth mentality—not just in math, but with learning, in general.

**Provide In-the-Moment Differentiation**

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

**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.
Assessment

With Reveal Math Accelerated, seventh grade 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 Accelerated, 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
- Benchmark 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 Accelerated* 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 Accelerated*

Contact your sales representative at mheducation.com/contact for more information.