

MATHEMATICS

2020 | 6-12 Catalog

Middle School

High School AP®/Honors & Electives Supplemental Solutions

MIDDLE SCHOOL MATHEMATICS
Reveal Math™ Introduction
Reveal Math $^{\scriptscriptstyle{\text{M}}}$ Grades 6–8
Reveal Math™ Accelerated
Illustrative Mathematics $^{\text{\tiny{M}}}$
HIGH SCHOOL MATHEMATICS
Reveal Algebra 1 [™] , Reveal Geometry [™] , Reveal Algebra 2 [™] 13
Reveal Math™ Integrated
Precalculus
HONORS/ELECTIVES
General Statistics
Miller Algebra Series
Miller Math Series
SUPPLEMENTAL SOLUTIONS
ALEKS®
Key toWorkbooks
Arrive Math™ Booster
Number Worlds®
Redbird Mathematics®
Corrective Mathematics

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A POWERFUL AND PURPOSEFUL MATHEMATICS LEARNING EXPERIENCE

Grades K-12

Reveal Math™, a complete K-12 core program, encourages students to explore, discover, collaborate and engage in rich tasks, mathematical discourse, and hands-on learning experiences to reveal the mathematics found all around them. The Reveal Math blended learning experience was designed to include purposeful print and digital components focused on sparking student curiosity and providing teachers with flexible implementation options.

Reveal Math™ Grades K-5 COMING SOON!

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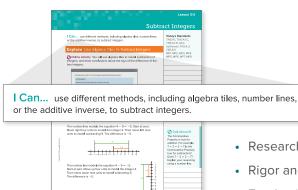
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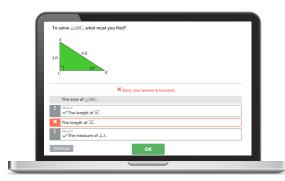
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- Research-based best practices
- · Rigor and access for all students
- · Emphasis on conceptual understanding



- · Interactive lessons
- · Videos and animations
- · Personalized adaptive practice



- · Digital assessment options
- · Tech-enhanced question types
- Reporting data dashboard





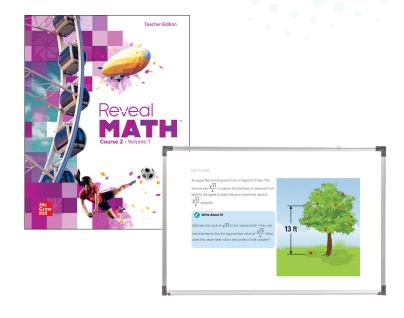
REVEAL THE FULL POTENTIAL IN EVERY STUDENT

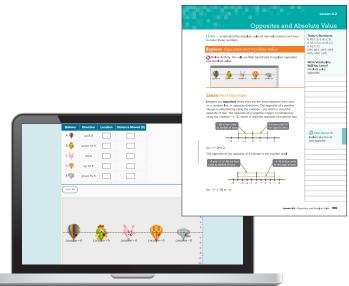
Grades 6-8

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

Teacher Resources

With robust print, embedded digital tools, and technology resources, Reveal Math saves valuable planning time to allow you to focus on your students. Help each student develop problem solving and higher order thinking skills by providing the right content at the right time with the help of Reveal Math.





Student Resources

Reveal Math provides students with the opportunity to develop problem solving habits that will serve them as lifelong learners. As they dive into rich tasks, productively struggle with challenging problems, and gain confidence as they persevere toward solutions, students will find themselves developing into mathematical thinkers ready to demonstrate their knowledge and skills.



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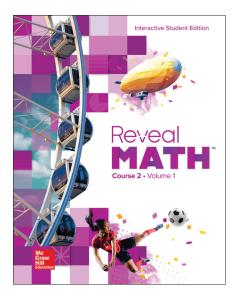
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COURSE 1 TABLE OF CONTENTS

- 1 Ratios and Rates
- 2 Fractions, Decimals, and Percents
- 3 Compute with Multi-Digit Numbers and Fractions
- 4 Integers, Rational Numbers, and the Coordinate Plane
- 5 Numerical and Algebraic Expressions
- 6 Equations and Inequalities
- 7 Relationships Between Two Variables
- 8 Area
- 9 Volume and Surface Area
- 10 Statistical Measures and Displays





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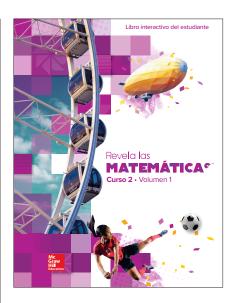
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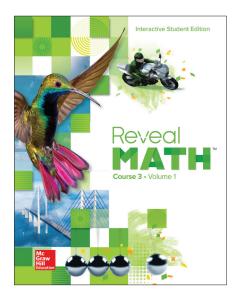
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COURSE 2 TABLE OF CONTENTS

- 1 Proportional Relationships
- 2 Solve Percent Problems
- 3 Operations with Integers
- 4 Operations with Rational Numbers
- 5 Simplify Algebraic Expressions
- 6 Write and Solve Equations
- 7 Write and Solve Inequalities
- **8** Geometric Figures
- 9 Measure Figures
- 10 Probability
- 11 Sampling and Statistics





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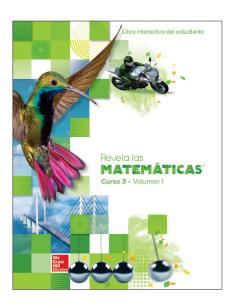
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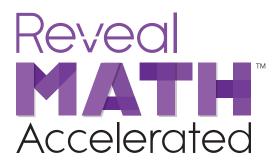
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COURSE 3 TABLE OF CONTENTS

- 1 Exponents and Scientific Notation
- 2 Real Numbers
- 3 Solve Equations with Variables on Each Side
- 4 Linear Relationships and Slope
- 5 Functions
- 6 Systems of Linear Equations
- 7 Triangles and the Pythagorean Theorem
- 8 Transformations
- 9 Congruence and Similarity
- 10 Volume
- 11 Scatter Plots and Two-Way Tables





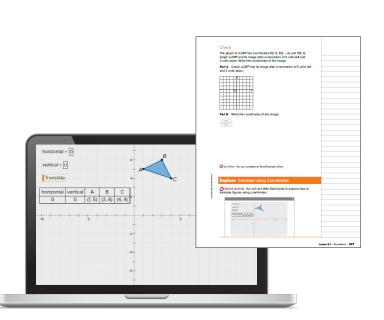
REVEAL THE FULL POTENTIAL IN EVERY STUDENT

Grade 7

Reveal Math™ Accelerated is the solution for educators preparing middle school students to take Algebra 1 in the 8th grade. Rich tasks, rigorous math content, and timely individualized learning opportunities help students develop mathematical habits leading to deep, conceptual understanding.

Teacher Resources

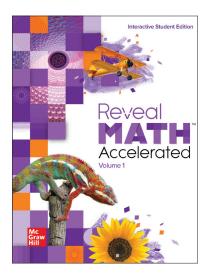
Robust print, embedded digital tools, and technologybased resources work together to maximize instructional time. Reveal Math Accelerated provides guided instructional prompts, supports the promotion of productive struggle and elevates targeted questioning to help shape student mathematical development and learning.





Student Resources

Reveal Math Accelerated provides students with the opportunity to develop the problem solving habits necessary for achievement in mathematics. Throughout the course, students discuss, collaborate, and learn to apply their own strategies to solve challenging problems, and make important mathematical connections.



Reveal Math Accelerated

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- **Proportional Relationships**
- 2 Solve Percent Problems
- 3 Operations with Integers and Rational Numbers
- 4 Exponents and Scientific Notation
- 5 Real Numbers
- 6 Algebraic Expressions
- 7 Equations and Inequalities
- 8 Linear Relationships and Slope
- 9 Probability
- 10 Sampling and Statistics
- 11 Geometric Figures
- 12 Area, Surface Area, and Volume
- 13 Transformations, Congruence, and Similarity

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A 6-12 Math Curriculum

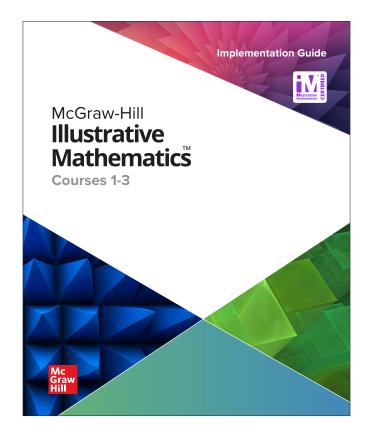
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Grades 9-12

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Grades 6-8

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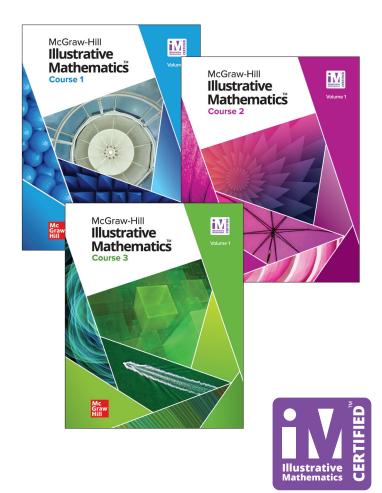
Decades of research shows that if students are given a chance to notice and wonder while trying to solve a problem by themselves, they retain procedural skills, develop problem-solving skills, build conceptual understanding, and form a mental framework for how ideas fit together. It allows students to develop strategies for tackling non-routine problems while engaging in productive struggle.

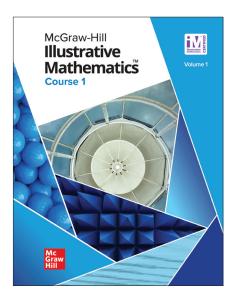
Illustrative Mathematics™ is a problem-based curriculum designed to address content and practice standards to foster learning for all. Students are encouraged to take an active role to see what they can figure out before having things explained to them or being told what to do.

EXCLUSIVE FEATURES

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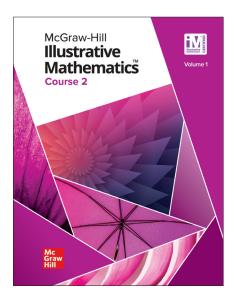
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COURSE 1 TABLE OF CONTENTS

Unit

- 1 Area and Surface Area
- 2 **Introducing Ratios**
- 3 **Unit Rates and Percentages**
- 4 **Dividing Fractions**
- 5 Arithmetic in Base Ten
- 6 Expressions and Equations
- **Rational Numbers**
- 8 Data Sets and Distributions
- **Putting It All Together**



Illustrative Mathematics Course 2

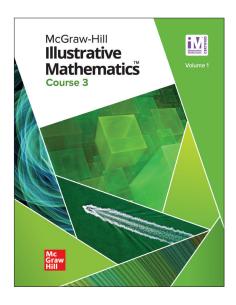
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COURSE 2 TABLE OF CONTENTS

Unit

- Scale Drawings
- 2 Introducing Proportional Relationships
- 3 Measuring Circles
- 4 Proportional Relationships and Percentages
- **5** Rational Number Arithmetic
- 6 Expressions, Equations, and Inequalities
- 7 Angles, Triangles, and Prisms
- 8 Probability and Sampling
- 9 Putting It All Together



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COURSE 3 TABLE OF CONTENTS

Unit

- **Rigid Transformations and Congruence**
- 2 Dilations, Similarity, and Introducing Slope
- **Linear Relationships**
- **Linear Equations and Linear Systems**
- 5 Functions and Volume
- 6 Associations in Data
- **Exponents and Scientific Notation**
- 8 Pythagorean Theorem and Irrational Numbers
- 9 Putting It All Together



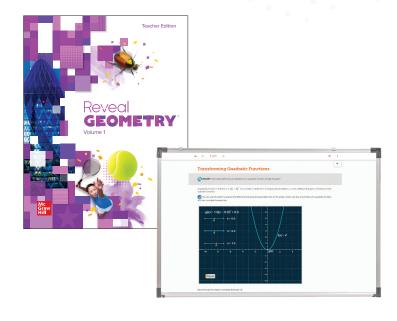
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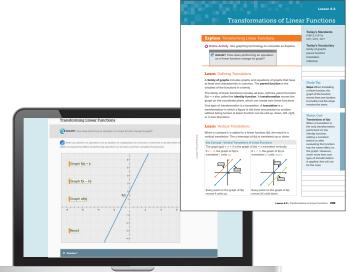
Grades 8-12

Reveal AGA™ has been purposefully designed to engage, motivate, and support all students. With a research-based instructional model at the foundation, Reveal AGA ensures learners build conceptual development in a variety of ways, leading toward mastery and success in the classroom and in future college and career opportunities.

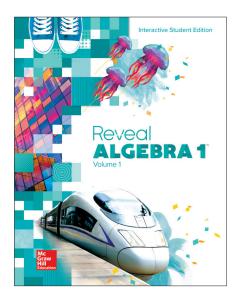
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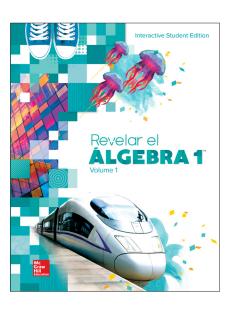


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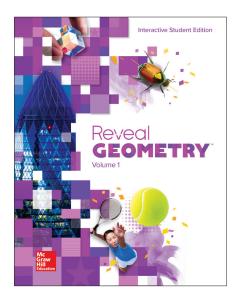
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- **Expressions**
- 2 Equations in One Variable
- 3 Relations and Functions
- 4 Linear and Nonlinear Functions
- 5 Creating Linear Equations
- 6 Linear Inequalities
- 7 Systems of Linear Equations and Inequalities
- 8 Exponents and Roots
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- 10 Polynomials
- 11 Quadratic Functions
- 12 Statistics

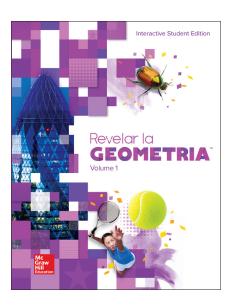




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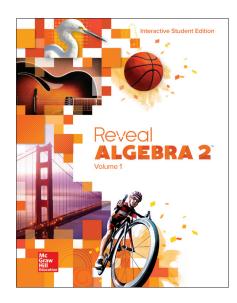
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- 2 Angles and Geometric Figures
- 3 Logical Arguments and Line Relationships
- 4 Transformations and Symmetry
- 5 Triangles and Congruence
- 6 Relationships in Triangles
- 7 Quadrilaterals
- 8 Similarity
- 9 Right Triangles and Trigonometry
- 10 Circles
- 11 Measurement
- 12 Probability

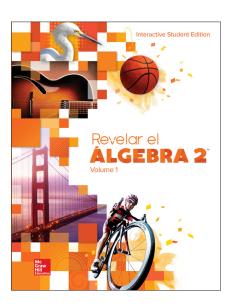




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ALGEBRA 2 TABLE OF CONTENTS

- 1 Relations and Functions
- 2 Linear Equations, Inequalities, and Systems
- 3 Quadratic Functions
- 4 Polynomials and Polynomial Functions
- 5 Polynomial Equations
- 6 Inverses and Radical Functions
- 7 Exponential Functions
- 8 Logarithmic Functions
- 9 Rational Functions
- 10 Inferential Statistics
- 11 Trigonometric Functions
- 12 Trigonometric Identities and Equations





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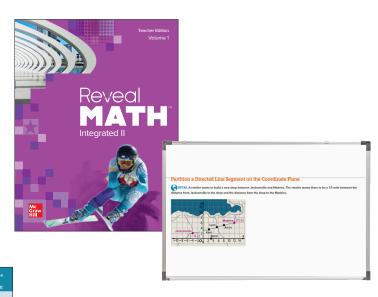
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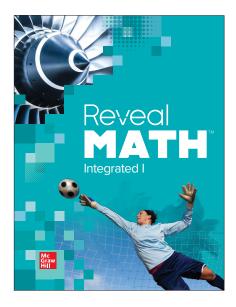
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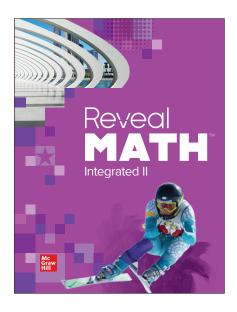
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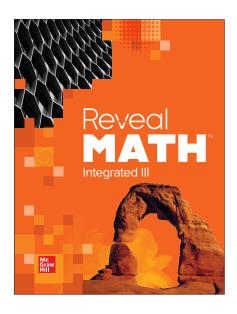
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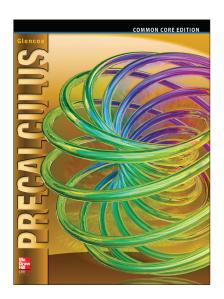
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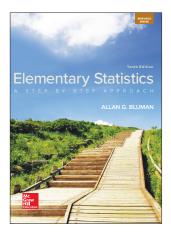
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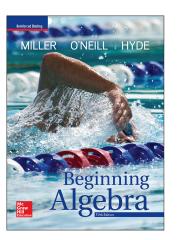
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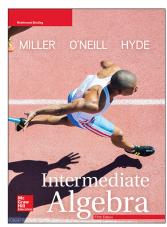
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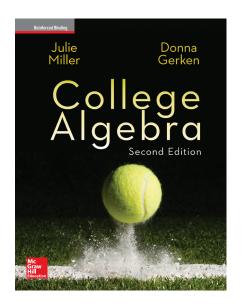
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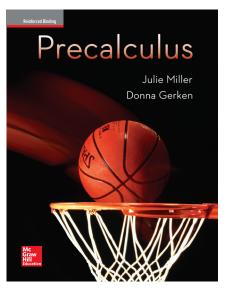
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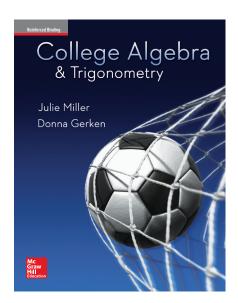
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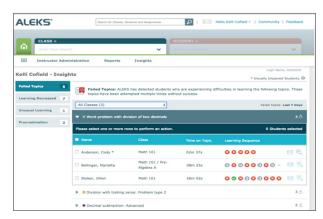
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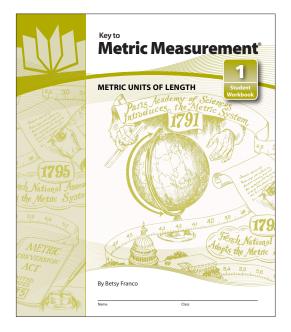
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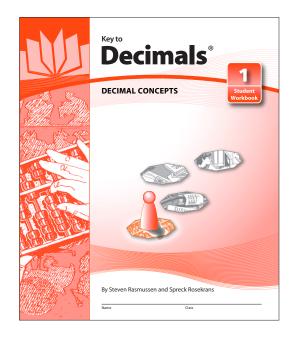
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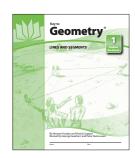
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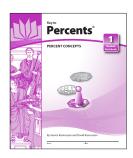
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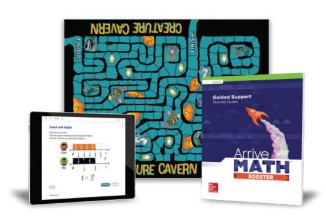
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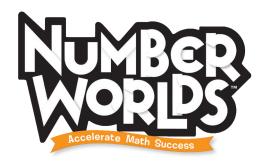
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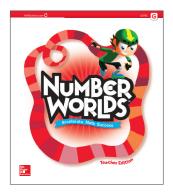
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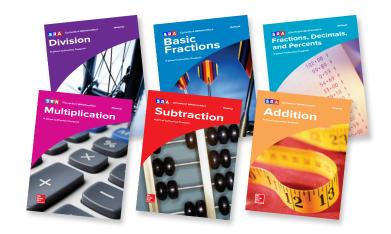
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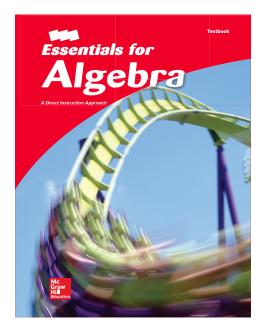
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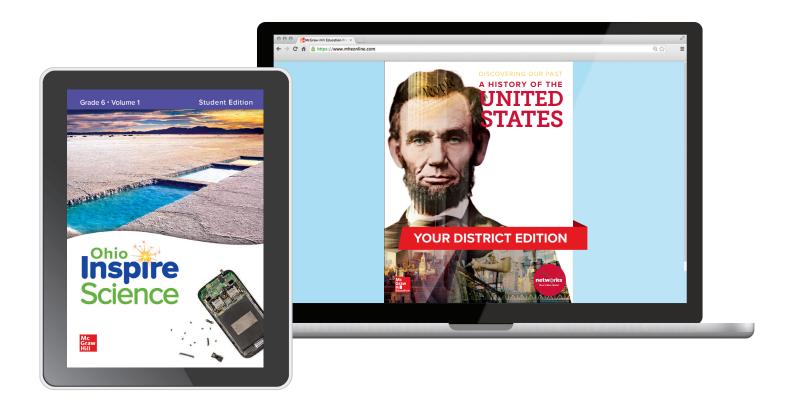




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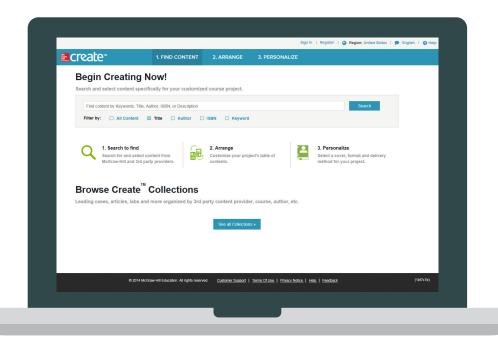
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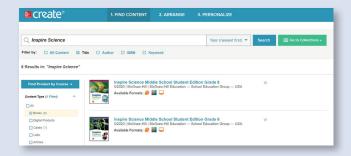


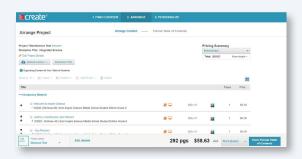


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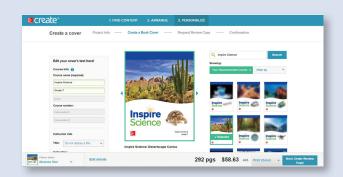


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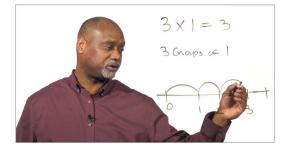
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