

Reveal Math™ Table of Contents

COURSE 2 – 7th grade

Visit with your student's classroom teacher for details on which lessons will be used from Reveal Math.

| Module 1 Proportional Relationships | |
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| 1-1 | Unit Rates Involving Ratios of Fractions Explore: Find Unit Rates with Fractions |
| 1-2 | Understand Proportional Relationships |
| 1-3 | Tables of Proportional Relationships Explore: Ratios in Tables |
| 1-4 | Graphs of Proportional Relationships Explore: Proportional Relationships, Tables, and Graphs Explore: Analyze Points |
| 1-5 | Equations of Proportional Relationships Explore: Proportional Relationships and Equations |
| 1-6 | Solve Problems Involving Proportional Relationships |
| Module 2 Solve Percent Problems | |
| 2-1 | Percent of Change Explore: Percent of Change |
| 2-2 | Tax Explore: Sales Tax |
| 2-3 | Tips and Markups |
| 2-4 | Discounts |
| 2-5 | Interest Explore: Interest |
| 2-6 | Commission and Fees |
| 2-7 | Percent Error Explore: Percent Error |
| Module 3 Operations with Integers | |
| 3-1 | Add Integers Explore: Use Algebra Tiles to Add Integers |
| 3-2 | Subtract Integers Explore: Use Algebra Tiles to Subtract Integers Explore: Find Distance on a Number Line |
| 3-3 | Multiply Integers Explore: Use Algebra Tiles to Multiply Integers |
| 3-4 | Divide Integers Explore: Use Algebra Tiles to Divide Integers |
| 3-5 | Apply Integer Operations |
| Module 4 Operations with Rational Numbers | |
| 4-1 | Rational Numbers Explore: Rational Number Written as Decimals |
| 4-2 | Add Rational Numbers |
| 4-3 | Subtract Rational Numbers |
| 4-4 | Multiply Rational Numbers |

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| 4-5 | Divide Rational Numbers |
| 4-6 | Apply Rational Numbers Operations |
| Module 5 Simplify Algebraic Expressions | |
| 5-1 | Simplify Algebraic Expressions Explore: Simplify Algebraic Expressions |
| 5-2 | Add Linear Expressions Explore: Add Expressions |
| 5-3 | Subtract Linear Expressions |
| 5-4 | Factor Linear Expressions Explore: Factor Linear Expressions |
| 5-5 | Combine Operations with Linear Expressions |
| Module 6 Write and Solve Equations | |
| 6-1 | Write and Solve One-Step Equations Explore: Solve One-Step Equations Using Algebra Tiles |
| 6-2 | Solve Two-Step Equations: $px + q = r$ Explore: Solve Two-Step Equations Using Bar Diagrams Explore: Solve Two-Step Equations Using Algebra Tiles |
| 6-3 | Write and Solve Two-Step Equations: $px + q = r$ Explore: Write Two-Step Equations |
| 6-4 | Solve Two-Step Equations: $p(x + q) = r$ Explore: Solve Two-Step Equations Using Bar Diagrams Explore: Solve Two-Step Equations Using Algebra Tiles |
| 6-5 | Write and Solve Two-Step Equations: $p(x + q) = r$ Explore: Write Two-Step Equations |
| Module 7 Write and Solve Inequalities | |
| 7-1 | Solve One-Step Addition and Subtraction Inequalities Explore: Addition and Subtraction Properties of Inequality |
| 7-2 | Write and Solve One-Step Addition and Subtraction Inequalities |
| 7-3 | Solve One-Step Multiplication and Division Inequalities with Positive Coefficients Explore: Multiplication and Division Properties of Inequality |
| 7-4 | Solve One-Step Multiplication and Division Inequalities with Negative Coefficients Explore: Multiplying and Dividing Inequalities by Negative Numbers |
| 7-5 | Write and Solve One-Step Multiplication and Division Inequalities |
| 7-6 | Write and Solve Two-Step Inequalities |
| Module 8 Geometric Figures | |
| 8-1 | Vertical and Adjacent Angles Explore: Vertical and Adjacent Angle Pairs |
| 8-2 | Complementary and Supplementary Angles Explore: Complementary and Supplementary Angle Pairs |
| 8-3 | Triangles Explore: Create Triangles |
| 8-4 | Scale Drawings Explore: Scale Drawings |
| 8-5 | Three-Dimensional Figures |
| Module 9 Measure Figures | |
| 9-1 | Circumference of Circles Explore: The Distance Around a Circle |
| 9-2 | Area of Circles Explore: Area of Circles |
| 9-3 | Area of Composite Figures |

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| 9-4 | Volume Explore: Volume of Prisms Explore: Volume of Pyramids |
| 9-5 | Surface Area Explore: Surface Area of Prisms and Pyramids |
| 9-6 | Volume and Surface Area of Composite Figures |
| Module 10 Probability | |
| 10-1 | Find Likelihoods Explore: Chance Events |
| 10-2 | Relative Frequency of Simple Events Explore: Experiments and Likelihood |
| 10-3 | Theoretical Probability of Simple Events Explore: Long-Run Relative Frequencies |
| 10-4 | Compare Probabilities of Simple Events |
| 10-5 | Probability of Compound Events Explore: Sample Space for Repeated Simple Events |
| 10-6 | Simulate Chance Events Explore: Simulations |
| Module 11 Sampling and Statistics | |
| 11-1 | Biased and Unbiased Samples |
| 11-2 | Make Predictions |
| 11-3 | Generate Multiple Samples Explore: Multiple Samples Explore: Sample Size in Multiple Samples |
| 11-4 | Compare Two Populations Explore: Compare Means of Two Populations |
| 11-5 | Assess Visual Overlap |

Reveal Math™ Table of Contents

COURSE 3 – 8th grade

Visit with your student's classroom teacher for details on which lessons will be used from Reveal Math.

| Module 1 Proportional Relationships | |
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| 1-1 | Powers and Exponents <i>Explore: Exponents</i> |
| 1-2 | Multiply and Divide Monomial <i>Explore: Product of Power</i> <i>Explore: Quotient of Powers</i> |
| 1-3 | Powers of Monomials <i>Explore: Power of a Power</i> |
| 1-4 | Zero and Negative Exponent <i>Explore: Exponents of Zero</i> <i>Explore: Negative Exponents</i> |
| 1-5 | Scientific Notation <i>Explore: Scientific Notation</i> |
| 1-6 | Compute with Scientific Notation |
| Module 2 Real Numbers | |
| 2-1 | Terminating and Repeating Decimals <i>Explore: Terminating Decimals</i> |
| 2-2 | Roots <i>Explore: Find Square Roots Using a Square Model</i> |
| 2-3 | Real Numbers <i>Explore: Real Numbers</i> |
| 2-4 | Estimate Irrational Numbers <i>Explore: Roots of Non-Perfect Squares</i> |
| 2-5 | Compare and Order Real Numbers |
| Module 3 Solve Equations with Variables on Each Side | |
| 3-1 | Solve Equations with Variables on Each Side <i>Explore: Equations with Variables on Each Side</i> |
| 3-2 | Write and solve Equations with Variables on Each Side <i>Explore: Write and solve Equations with Variables on Each Side</i> |
| 3-3 | Solve Multi-Step Equations |
| 3-4 | Write and Solve Multi-Step Equations <i>Explore: Translate Problems into Equations</i> |
| 3-5 | Determine the Number of Solutions <i>Explore: Number of Solutions</i> |
| Module 4 Linear Relationships and Slope | |
| 4-1 | Proportional Relationships and Slope <i>Explore: Rate of Change</i> |
| 4-2 | Slope of a Line <i>Explore: Develop Concepts of Slope</i> <i>Explore: Slope of Horizontal and Vertical Lines</i> |
| 4-3 | Similar Triangles and Slope <i>Explore: Right Triangles and Slope</i> |
| 4-4 | Direct Variation <i>Explore: Derive the Equation $y = mx$</i> |
| 4-5 | Slope-Intercept Form <i>Explore: Derive the Equation $y = mx + b$</i> |
| 4-6 | Graph Linear Equations |

| Module 5 Functions | |
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| 5-1 | Identify Functions <i>Explore: Relations and Functions</i> |
| 5-2 | Function Tables <i>Explore: An Introduction to Function Rules</i> |
| 5-3 | Construct Linear Functions |
| 5-4 | Compare Functions <i>Explore: Comparing Properties of Functions</i> |
| 5-5 | Nonlinear Functions <i>Explore: Linear and Nonlinear Functions</i> |
| 5-6 | Qualitative Graphs <i>Explore: Interpret Qualitative Graphs</i> |
| Module 6 Systems of Linear Equations | |
| 6-1 | Solve Systems of Equations by Graphing <i>Explore: Systems of Equations</i> |
| 6-2 | Determine Number of Solutions <i>Explore: Systems of Equations: Slopes and y-Intercepts</i> |
| 6-3 | Solve Systems of Equations by Substitution <i>Explore: Solve Systems of Equations by Substitution</i> |
| 6-4 | Solve Systems of Equations by Elimination <i>Explore: Solve Systems of Equations by Elimination</i> |
| 6-5 | Write and Solve Systems of Equations |
| Module 7 Triangles and the Pythagorean Theorem | |
| 7-1 | Angle Relationships and Parallel Lines <i>Explore: Parallel Lines and Transversals</i> |
| 7-2 | Angle Relationships and Triangles <i>Explore: Angles of Triangles</i> <i>Explore: Exterior Angles of Triangles</i> |
| 7-3 | The Pythagorean Theorem <i>Explore: Right Triangle Relationships</i> <i>Explore: Proof of the Pythagorean Theorem</i> |
| 7-4 | Converse of the Pythagorean Theorem <i>Explore: Prove the Converse of the Pythagorean Theorem</i> |
| 7-5 | Distance on the Coordinate Plane <i>Explore: Use the Pythagorean Theorem to Find Distance</i> |
| Module 8 Transformations | |
| 8-1 | Translations <i>Explore: Translate Using Coordinates</i> |
| 8-2 | Reflections <i>Explore: Reflect Using Coordinates</i> |
| 8-3 | Rotations <i>Explore: Rotate Using Coordinates</i> |
| 8-4 | Dilations <i>Explore: Dilate Figures on the Coordinate Plane</i> |
| Module 9 Congruence and Similarity | |
| 9-1 | Congruence and Transformations <i>Explore: Congruence and Transformations</i> |
| 9-2 | Congruence and Corresponding Parts |
| 9-3 | Similarity and Transformations |
| 9-4 | Similarity and Corresponding Parts <i>Explore: Similar Triangles</i> <i>Explore: Angle-Angle Similarity</i> |
| 9-5 | Indirect Measurement <i>Explore: Similar Triangles and Indirect Measurement</i> |
| Module 10 Volume | |

Module 7
Triangles

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|---|--|
| 10-1 | Volume of Cylinders <i>Explore: Volume of Cylinders</i> |
| 10-2 | Volume of Cones <i>Explore: Volume of Cones</i> |
| 10-3 | Volume of Spheres |
| 10-4 | Find Missing Dimensions |
| 10-5 | Volume of Composite Solids |
| Module 11 Scatter Plots and Two-Way Tables | |
| 11-1 | Scatter Plots <i>Explore: Scatter Plots</i> |
| 11-2 | Draw Lines of Fit <i>Explore: Lines of Fit</i> |
| 11-3 | Equations for Lines of Fit |
| 11-4 | Two-Way Tables |
| 11-5 | Associations in Two-Way Tables <i>Explore: Patterns of Association in Two-Way Tables</i> |