Scope and Sequence Alignment Guide

Grades 6–8

Accelerated Pathway

Reveal MATH® Accelerated

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	Reveal Math COURSE 1	*Reveal Math Accelerated*	*Reveal Algebra 1*
The Number System and Quantity			
Computing with Multi-Digit Whole Numbers			
Dividing Multi-Digit Numbers	**6.NS.B.2**		
Greatest Common Factor	**6.NS.B.4**		
Least Common Multiple	**6.NS.B.4**		
Using the Distributive Property	**6.NS.B.4**		
Dividing Fractions			
Dividing Fractions by Fractions	**6.NS.A.1**		
Understanding Rational Numbers			
Understanding Positive and Negative Numbers	**6.NS.C.5**		
Understanding Rational Numbers as Points on Number Lines	**6.NS.C.6, 6.NS.C.6.C**	**7.NS.A.1, 7.NS.A.1.C**	
Understanding Opposite Signs of Numbers as Opposite Sides of 0 on Number Line	**6.NS.C.6.A**		
Understanding Signs of Numbers in Ordered Pairs Indicating Quadrants of Points Graphed	**6.NS.C.6.B**		
Finding and Positioning Numbers on Number Lines and Coordinate Planes	**6.NS.C.8**		
Distance Between Points on the Coordinate Plane	**6.NS.C.8**		
Connecting Inequalities and Positions on Number Lines	**6.NS.C.7.A**		
Ordering Rational Numbers	**6.NS.C.7.B**		
Absolute Values of Rational Numbers	**6.NS.C.7.C**		
Distinguishing Between Absolute Value and Order	**6.NS.C.7.D**		
Understanding that Opposite Quantities Make 0		**7.NS.A.1, 7.NS.A.1.A, 7.NS.A.1.B**	

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	Reveal Math COURSE 1	*Reveal Math Accelerated*	*Reveal Algebra 1*
Operations with Rational Numbers			
Operations with Positive Decimals	**6.NS.A.3**		
Adding and Subtracting Integers		**7.NS.A.1, 7.NS.A.1.B, 7.NS.A.1.C, 7.NS.A.1.D**	
Multiplying and Dividing Integers		**7.NS.A.2, 7.NS.A.2.A, 7.NS.A.2.B, 7.NS.A.2.C**	
Adding and Subtracting Positive and Negative Rational Numbers		**7.NS.A.1, 7.NS.A.1.B, 7.NS.A.1.C, 7.NS.A.1.D**	
Multiplying and Dividing Positive and Negative Rational Numbers		**7.NS.A.2, 7.NS.A.2.A, 7.NS.A.2.B, 7.NS.A.2.C**	
Distance between Rational Numbers on a Number Line		**7.NS.A.1.B, 7.NS.A.1.C**	
Converting Rational Numbers to Decimals and Vice Versa		**7.NS.A.2.D,** **8.NS.A.1**	
Solving Problems Involving Four Operations with Rational Numbers		**7.NS.A.3**	
Product of Two Rational Numbers Is Rational			**N.RN.3**
Irrational Numbers			
Understanding Numbers that Are Not Rational Are Irrational		**8.NS.A.1**	
Using Rational Approximations of Irrational Numbers		**8.NS.A.2**	
Sum of Rational Number and Irrational Number Is Irrational			**N.RN.3**
Product of Nonzero Rational Number and Irrational Number Is Irrational			**N.RN.3**
Rational Exponents			
Extending Integer Exponents to Rational Exponents			**N.RN.1**
Relating Rational Exponents to Radicals			**N.RN.1**
Rewriting Expressions Involving Radicals and Rational Exponents			**N.RN.2**

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Reason Quantitatively and Using Units			
Using Units to Understand Problems and Solutions			N.Q.1
Defining Appropriate Quantities for Descriptive Modeling			N.Q.2
Choosing Accuracy Levels			N.Q.3
Proportional Relationships and Algebraic Thinking			
Proportional Relationships			
Understanding and Using Ratios and Ratio Language	6.RP.A.1		
Understanding Rates and Unit Rates	6.RP.A.2	7.RP.A.1	
Finding Equivalent Ratios	6.RP.A.3.A	7.RP.A.2.A	
Graphing and Comparing Equivalent Ratios	6.RP.A.3.A		
Solving Ratio and Unit Rate Problems	6.RP.A.3, 6.RP.A.3.B	7.RP.A.1, 7.G.A.1, 7.SP.A.2, 7.G.A.1	
Finding Percent of a Number	6.RP.A.3.C		
Solving Problems by Finding the Whole	6.RP.A.3.D		
Converting Customary Measurements Using Ratio Reasoning	6.RP.A.3.D		
Understanding Proportional Relationships		7.RP.A.2	
Using Tables and Graphs to Determine Proportionality		7.RP.A.2, 7.RP.A.2.A	
Identifying the Constant of Proportionality and Interpreting it as the Unit Rate		7.RP.A.2, 7.RP.A.2.B	
Representing Proportional Relationships with Equations		7.RP.A.2, 7.RP.A.2.C	
Explaining Special Points on Graphs of Proportional Relationships		7.RP.A.2, 7.RP.A.2.D, 8.EE.B.5	
Solving Multi-Step Problems Related to Ratios and Percents		7.RP.A.3	

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Graphing Proportional Relationships, Interpreting the Unit Rate as the Slope		7.RP.A.2, 7.RP.A.2.A, 7.RP.A.2.B, 7.RP.A.2.D, 8.EE.B.5	
Comparing Proportional Relationships		8.EE.B.5	
Expressions			
Writing and Evaluating Numerical Expressions	6.EE.A.1		A.SSE.1a, A.SSE.2
Writing and Evaluating Algebraic Expressions	6.EE.A.2, 6.EE.A.2.A, 6.EE.A.2.B, 6.EE.A.2.C		A.SSE.1a, A.SSE.2
Order of Operations	6.EE.A.2.C		A.SSE.1a
Adding and Subtracting Linear Expressions		7.EE.A.1	A.SSE.1a, A.SSE.2
Factoring and Expanding Linear Expressions		7.EE.A.1	
Writing Expressions to Represent Real-World Problems	6.EE.B.6	7.EE.A.2, 7.EE.B.3	
Identifying Equivalent Expressions Using Substitution	6.EE.A.4		
Using the Properties of Operations to Generate Equivalent Expressions	6.EE.A.3	7.EE.A.1, 7.EE.A.2, 7.EE.3, 8.EE.A.1	
Using the Properties of Operations			A.SSE.1a, A.SSE.2
Generating Equivalent Expressions			A.SSE.3
Properties of Integer Exponents		8.EE.A.1	
Writing Numbers in Scientific Notation and Vice Versa		8.EE.A.3	
Operations with Numbers in Scientific Notation		8.EE.A.4	
Transforming Exponential Expressions			A.SSE.3c
Interpreting Parts of Expressions			A.SSE.1a
Interpreting Complicated Expressions			A.SSE.1b
Rewriting Expressions for Clarity			A.SSE.2

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Polynomial and Rational Expressions			
Closure of Polynomials Expressions			A.APR.1
Adding, Subtracting, and Multiplying Polynomials			A.APR.1
Factoring Quadratic Expressions			A.SSE.3a
Completing the Square in Quadratic Expressions			A.SSE.3b
One-Variable Equations			
Solving Equations by Using a Replacement Set	6.EE.B.5		
Writing and Solving Equations to Solve Problems	6.EE.B.6, 6.EE.B.7	7.EE.B.4, 7.EE.B.4.A, 7.G.B.4, 7.G.B.5, 7.G.B.6, 8.EE.C.7, 8.EE.C.7.A, 8.EE.C.7.B, 8.G.C.9	A.CED.1
Determining One, Infinitely Many, or No Solutions		8.EE.C.7, 8.EE.C.7.A	A.CED.1
Solving Simple Quadratic and Cubic Equations by Taking Square and Cube Roots		8.EE.A.2	
Solving Linear Equations			A.CED.1, A.REI.3
Solving Equations with Letter Coefficients			A.REI.3
Solving Equations by Using the Distributive Property			A.CED.1
Explaining Each Step in Solving Equations			A.REI.1
Solving Quadratic Equations by Factoring			A.REI.4b
Solving Quadratic Equations by Taking Square Roots			A.REI.4b
Solving Quadratic Equations by Completing the Square			A.REI.4a
Solving Quadratic Equations by Using the Quadratic Formula			A.REI.4b
One-Variable Inequalities			

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Writing Inequalities	6.EE.B.8	7.EE.B.4, 7.EE.B.4.B	A.CED.1
Solving Linear Inequalities	6.EE.B.8	7.EE.B.4, 7.EE.B.4.B	A.CED.1, A.REI.3
Graphing Solutions of Inequalities on Number Lines	6.EE.B.8	7.EE.B.4, 7.EE.B.4.B	
Representing Constraints by Using Equations or Inequalities			A.CED.3
Two-Variable Equations and Functions			
Understanding Relationships Between Two Variables	6.EE.C.9		
Represent Relationships between Two Variables with Tables, Graphs, and Equations	6.EE.C.9		
Writing Equations to Represent Functions			A.CED.2
Graphing Proportional Relations and Equations			A.CED.2
Slope of a Line			8.EE.6
Rearranging Equations and Formulas			A.CED.4
Relating Graphs and Equations			A.REI.10
Intersections of Graphs			A.REI.11
Graphing Solutions of Inequalities			A.REI.12
Systems of Equations and Inequalities			
Solving Systems by Graphing			8.EE.C.8, 8.EE.C.8.A, A.REI.6
Solving Systems Algebraically			8.EE.C.8, 8.EE.C.8.B, A.REI.6
Solving Problems by Writing and Solving a System of Equations			8.EE.C.8, 8.EE.C.8.C
Proving Row Operations			A.REI.5
Solving Systems of Linear and Quadratic Equations			A.REI.7
Graphing Solutions of Systems of Inequalities			A.REI.12

	Reveal Math COURSE 1	*Reveal Math Accelerated*	*Reveal Algebra 1*
Functions			
Defining and Interpreting Functions			
Definition of Functions			**8.F.A.1, 8.F.A.2, 8.F.A.3, F.IF.1**
Multiple Representations of Functions			**8.F.A.2**
Using Function Notation			**F.IF.2**
Using Functions to Model			**8.F.B.4, F.IF.4**
Graphs of Functions			**F.IF.4**
Relating Domains to Relationships			**F.IF.5**
Rate of Change and Initial Value			**8.F.B.4**
Rate of Change			**F.IF.6**
Linear Functions			**F.IF.7a**
Comparing Functions			**8.F.A.2, F.IF.9**
Nonlinear Functions			
Sketching and Describing Qualitative Graphs			**8.F.B.5**
Comparing Linear and Nonlinear Functions			**8.F.A.3**
Quadratic Functions			**F.IF.7a**
Piecewise-Defined Functions			**F.IF.7b**
Exponential Functions			**F.IF.7e**
Factor to Analyze Functions			**F.IF.8a**
Interpreting Expressions for Exponential Functions			**F.IF.8b**
Building Functions that Model Relationships			
Writing Functions from Relationships			**F.BF.1a**
Combining Function Types			**F.BF.1b**
Sequences as Functions			**F.IF.3**

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	Reveal Math COURSE 1	*Reveal Math Accelerated*	*Reveal Algebra 1*
Arithmetic Sequences			F.BF.2
Geometric Sequences			F.BF.2
Building Functions from Other Functions			
Transformations of Functions			F.BF.3
Finding Inverses of Functions			F.BF.4a
Comparing Linear, Quadratic, and Exponential Models			
Distinguishing Between Linear and Exponential Models			F.LE.1
Constructing Linear and Exponential Functions			F.LE.2
Comparing Graphs of Polynomial and Exponential Functions			F.LE.3
Interpreting Parameters in Linear and Exponential Functions			F.LE.5
Geometry			
Angles and Polygons			
Angle Relationships		7.G.B.5, 8.G.A.5	
Drawing Polygons Given Conditions		7.G.B.2, 8.G.A.3	
Measurement			
Circumferences of Circles	7.G.B.4,	7.G.B.4, 8.G.C.9	
Areas of Circles		7.G.B.4, 8.G.C.9	
Areas of Polygons	6.G.A.1	7.G.B.6, 8.G.C.9	
Volumes of Prisms	6.G.A.2	7.G.B.6	
Volumes of Cones, Cylinders, Spheres		8.G.C.9	
Surface Areas of Solid Figures	6.G.A.4	7.G.B.6	
Cross Sections		7.G.A.3	
The Pythagorean Theorem			
Proving and Using the Pythagorean Theorem			8.G.B.6, 8.G.B.7, 8.G.B.8

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Congruence, Similarity, and Transformations			
Congruence and Transformations		8.G.A.1, 8.G.A.1.A, 8.G.A.1.B, 8.G.A.1.C, 8.G.A.2	
Describing Transformations Using Coordinates		8.G.A.3	
Congruent Figures		8.G.A.2, 8.G.A.3	
Scale Drawings		7.G.A.1, 8.G.A.3, 8.G.A.4	
Similarity and Transformations		8.G.A.4	
Similar Polygons		8.G.A.4, 8.G.A.5, 8.EE.B.5	
Analytic Geometry			
Drawing Polygons in the Coordinate Plane	6.G.A.3	8.G.A.3	
Geometric Modeling			
Describing Real-World Objects	6.G.A.1, 6.G.A.2, 6.G.A.3, 6.G.A.4	7.G.B.4, 7.G.B.6, 8.G.C.9	
Statistics and Probability			
Statistics: Univariate Data			
Statistics and Statistical Questions	6.SP.A.1, 6.SP.A.2	7.SP.A.1	
Distributions	6.SP.A.2, 6.SP.A.4, 6.SP.A.5, 6.SP.A.5.A, 6.SP.A.5.B, 6.SP.A.5.C, 6.SP.A.5.D		S.ID.3
Measures of Center	6.SP.A.3, 6.SP.A.5.C		S.ID.3
Measures of Variation	6.SP.A.3, 6.SP.A.5.C		S.ID.3
Histograms, Box Plots	6.SP.A.4		
Dot Plots, Histograms, Box Plots			S.ID.1

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Summarizing Numerical Data	6.SP.A.5, 6.SP.A.5.A, 6.SP.A.5.B, 6.SP.A.5.C, 6.SP.A.5.D		
Random Sampling		7.SP.A.1, 7.SP.A.2	
Drawing Statistical Inferences		7.SP.A.2, 7.SP.B.4	
Generating Multiple Samples		7.SP.A.2	
Comparing Two Populations		7.SP.B.3, 7.SP.B.4	
Comparing Distributions			S.ID.2
Statistics: Bivariate Data			
Scatter Plots and Associations			8.SP.A.1, S.ID.6
Fitting a Line or Curve to Data			8.SP.A.2, S.ID.6
Using the Equation of a Line of Fit to Solve Problems			8.SP.A.3
Two-Way Frequency Tables and Associations			8.SP.A.4, S.ID.5
Interpreting the Slope and Intercept			S.ID.7
Correlation Coefficients			S.ID.8
Correlation and Causation			S.ID.9
Interpreting the Slope and Intercept			S.ID.7
Probability			
Likelihood of Chance Events		7.SP.C.5	
Representing Sample Spaces		7.SP.C.7, 7.SP.C.8	
Understanding Probability		7.SP.C.5	
Relative Frequency and Experimental Probability		7.SP.C.6	
Comparing Relative Frequency to Theoretical Probability		7.SP.C.7	
Developing Probability Models		7.SP.C.7	
Finding Theoretical Probability of Simple Events		7.SP.C.7	
Finding Theoretical Probability of Compound Events		7.SP.C.8	
Designing and Using Simulations		7.SP.C.8	

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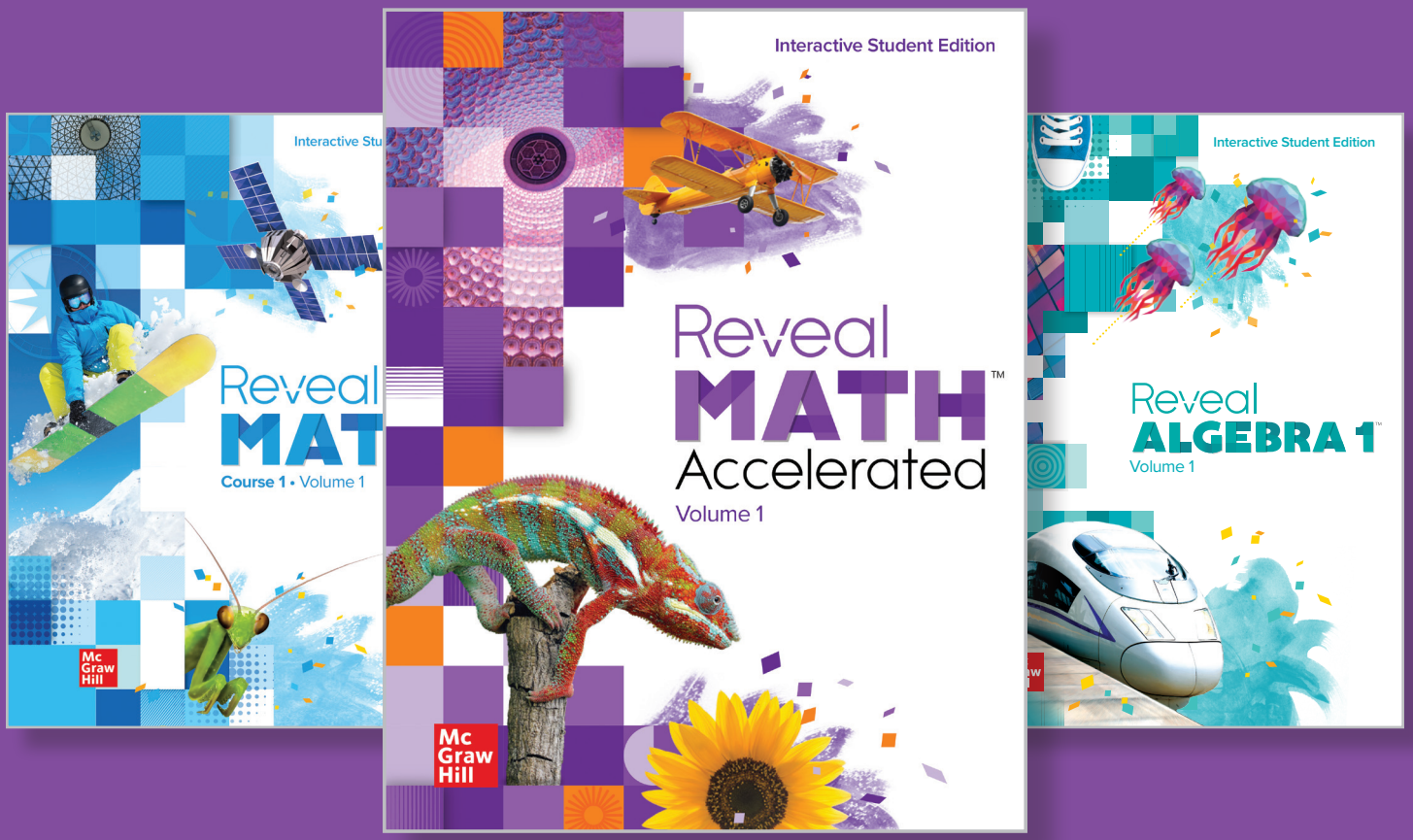

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