



# WOODBIDGE SCHOOL DISTRICT

40 Beecher Road – South  
Woodbridge, Connecticut 06525

Jonathan S. Budd, Ph.D. – Superintendent

## MEMORANDUM

TO: Woodbridge Board of Education  
FROM: Jonathan S. Budd, Ph.D., Superintendent  
DATE: May 13, 2021  
RE: Approval of Textbook: *Reveal Math Accelerated* (Grade 6 Pre-Algebra)

As discussed at the February 18 and April 22, 2021, meetings of the Curriculum Committee, Pre-Algebra will be offered to grade 6 students with age-advanced abstract cognitive skills, aligning with many other comparable districts, and with the curriculum of Region No. 5 (Amity). To support the scope and sequence of that curriculum, I recommend the Board's adoption of *Reveal Math Accelerated* (2021), which is a two-volume print text supported by ample digital resources. Please see attached the relevant Scope and Sequence aligned to the Connecticut Core Standards in Mathematics.

I recommend the following motion:

Move that we adopt *Reveal Math Accelerated* for use in Grade 6 Pre-Algebra.



# Scope and Sequence Alignment Guide

**Grades 6–8**

Accelerated Pathway



Reveal  
**MATH**<sup>®</sup>  
Accelerated

[revealmath.com/accelerated](http://revealmath.com/accelerated)

*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	<b>6.NS.B.2</b>		
Greatest Common Factor	<b>6.NS.B.4</b>		
Least Common Multiple	<b>6.NS.B.4</b>		
Using the Distributive Property	<b>6.NS.B.4</b>		

### Dividing Fractions

Dividing Fractions by Fractions	<b>6.NS.A.1</b>		
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### Understanding Rational Numbers

Understanding Positive and Negative Numbers	<b>6.NS.C.5</b>		
Understanding Rational Numbers as Points on Number Lines	<b>6.NS.C.6, 6.NS.C.6.C</b>	<b>7.NS.A.1, 7.NS.A.1.C</b>	
Understanding Opposite Signs of Numbers as Opposite Sides of 0 on Number Line	<b>6.NS.C.6.A</b>		
Understanding Signs of Numbers in Ordered Pairs Indicating Quadrants of Points Graphed	<b>6.NS.C.6.B</b>		
Finding and Positioning Numbers on Number Lines and Coordinate Planes	<b>6.NS.C.8</b>		
Distance Between Points on the Coordinate Plane	<b>6.NS.C.8</b>		
Connecting Inequalities and Positions on Number Lines	<b>6.NS.C.7.A</b>		
Ordering Rational Numbers	<b>6.NS.C.7.B</b>		
Absolute Values of Rational Numbers	<b>6.NS.C.7.C</b>		
Distinguishing Between Absolute Value and Order	<b>6.NS.C.7.D</b>		
Understanding that Opposite Quantities Make 0		<b>7.NS.A.1, 7.NS.A.1.A, 7.NS.A.1.B</b>	

KEY:

Introduce	Develop
Maintain	Implicit Use

**Note:** Implicit Use means that the standard listed is not required for this course, but the content is covered and/or used in the course.

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

	<i>Reveal Math</i> COURSE 1	<i>Reveal Math</i> Accelerated	<i>Reveal</i> Algebra 1
Reason Quantitatively and Using Units			
Using Units to Understand Problems and Solutions			<b>N.Q.1</b>
Defining Appropriate Quantities for Descriptive Modeling			<b>N.Q.2</b>
Choosing Accuracy Levels			<b>N.Q.3</b>

## Proportional Relationships and Algebraic Thinking

### Proportional Relationships

Understanding and Using Ratios and Ratio Language	<b>6.RP.A.1</b>		
Understanding Rates and Unit Rates	<b>6.RP.A.2</b>	<b>7.RP.A.1</b>	
Finding Equivalent Ratios	<b>6.RP.A.3.A</b>	<b>7.RP.A.2.A</b>	
Graphing and Comparing Equivalent Ratios	<b>6.RP.A.3.A</b>		
Solving Ratio and Unit Rate Problems	<b>6.RP.A.3, 6.RP.A.3.B</b>	<b>7.RP.A.1, 7.G.A.1, 7.SP.A.2, 7.G.A.1</b>	
Finding Percent of a Number	<b>6.RP.A.3.C</b>		
Solving Problems by Finding the Whole	<b>6.RP.A.3.D</b>		
Converting Customary Measurements Using Ratio Reasoning	<b>6.RP.A.3.D</b>		
Understanding Proportional Relationships		<b>7.RP.A.2</b>	
Using Tables and Graphs to Determine Proportionality		<b>7.RP.A.2, 7.RP.A.2.A</b>	
Identifying the Constant of Proportionality and Interpreting it as the Unit Rate		<b>7.RP.A.2, 7.RP.A.2.B</b>	
Representing Proportional Relationships with Equations		<b>7.RP.A.2, 7.RP.A.2.C</b>	
Explaining Special Points on Graphs of Proportional Relationships		<b>7.RP.A.2, 7.RP.A.2.D, 8.EE.B.5</b>	
Solving Multi-Step Problems Related to Ratios and Percents		<b>7.RP.A.3</b>	

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<b>Maintain</b>	<b>Implicit Use</b>

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	<i>Reveal Math</i> COURSE 1	<i>Reveal Math</i> Accelerated	<i>Reveal</i> Algebra 1
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	
<b>Expressions</b>			
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

	<i>Reveal Math</i> COURSE 1	<i>Reveal Math</i> Accelerated	<i>Reveal</i> Algebra 1
<b>Polynomial and Rational Expressions</b>			
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
<b>One-Variable Equations</b>			
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
<b>One-Variable Inequalities</b>			

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	<i>Reveal Math</i> COURSE 1	<i>Reveal Math</i> Accelerated	<i>Reveal</i> Algebra 1
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
<b>Two-Variable Equations and Functions</b>			
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
<b>Systems of Equations and Inequalities</b>			
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



## 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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	<i>Reveal Math</i> COURSE 1	<i>Reveal Math</i> Accelerated	<i>Reveal</i> Algebra 1
Arithmetic Sequences			F.BF.2
Geometric Sequences			F.BF.2
<b>Building Functions from Other Functions</b>			
Transformations of Functions			F.BF.3
Finding Inverses of Functions			F.BF.4a
<b>Comparing Linear, Quadratic, and Exponential Models</b>			
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
<b>Geometry</b>			
<b>Angles and Polygons</b>			
Angle Relationships		7.G.B.5, 8.G.A.5	
Drawing Polygons Given Conditions		7.G.B.2, 8.G.A.3	
<b>Measurement</b>			
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	
<b>The Pythagorean Theorem</b>			
Proving and Using the Pythagorean Theorem			8.G.B.6, 8.G.B.7, 8.G.B.8

	<i>Reveal Math</i> COURSE 1	<i>Reveal Math</i> Accelerated	<i>Reveal</i> Algebra 1
<b>Congruence, Similarity, and Transformations</b>			
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	
<b>Analytic Geometry</b>			
Drawing Polygons in the Coordinate Plane	6.G.A.3	8.G.A.3	
<b>Geometric Modeling</b>			
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	
<b>Statistics and Probability</b>			
<b>Statistics: Univariate Data</b>			
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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	<i>Reveal Math</i> COURSE 1	<i>Reveal Math</i> Accelerated	<i>Reveal</i> Algebra 1
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
<b>Statistics: Bivariate Data</b>			
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
<b>Probability</b>			
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	