Math Expressions Sixth Grade Pacing Calendar and Standards Alignment -Non-Math Teaching Days **First Introduction of Standard**

Instructional Days	1	2	3	4	5			6	7	8	9	10			11	12	13	14	15			16	17	18	19	20			21	22	23
Sept.			Unit 1					Unit 1							Unit 1							Unit 1									
Oct.	Unit 1/Test							Unit 2							Unit 2							Unit 2/Test							Unit 3		
Nov.	Unit 3							Unit 3							Unit 3							Unit 3									
Dec.	Unit 3/Test							Unit 4							Unit 4							Unit 4 Test									
Jan.			Unit 5					Unit 5							Unit 5							Unit 5							Unit 5 Test		
Feb.	Unit 5							Unit 5 Test			Unit 6				Unit 6							Unit 6/Test									
March	Unit 7							Unit 7							Unit 7							Unit 7									
April	Unit 7							Unit 7 Test			Unit 8				Unit 8							Unit 8									
May	Unit 8							Unit 8 Test			Unit 9				Unit 9							Unit 9								Unit 9	
June	Unit 9 Test																														

Unit 1 (21 days)	Unit 2 (13 days)	Unit 3 (24 days)	Unit 4 (10 days)	Unit 5 (24 days)	Unit 6 (8 days)	Unit 7 (20 days)	Unit 8 (19 days)	Unit 9 (15 days)
Rates, Ratios, and Proportions This unit introduces rates and ratios by connecting rate and ratio to whole number multiplication and division and using concepts of rate and ratio to solve problems.	**Area of Polygons** Students explore formulas for the area of different polygons in this unit. They compose and decompose rectangles and parallelograms as they derive formulas.	**Operations with Whole Numbers, Fractions, and Decimals** This unit builds upon the concept of place value and its relationship to multiplication and division of whole numbers and decimals.	**Surface Area of Prisms and Pyramids** Hands-on activities help students explore the properties of prisms and pyramids. They use the area concepts they learned in Unit 2 to find the surface area of these figures.	**Expressions and Equations** Students write and evaluate algebraic expressions and analyse their underlying structures. They also learn to use the properties of arithmetic to recognize and write equivalent expressions. Students learn to find solutions for equations and inequalities.	**Volume of a Rectangular Prism** Volume is a critical area for Grade 5. Students bring their prior knowledge to this unit as they explore volume for prisms that have fractional edge lengths.	**Ratios and Rates with Fractions, Decimals, and Percents** Unit 7 builds upon the concepts of rates, and proportions introduced in Unit 1. The concept of rate is extended to all ratios, and unit rates are used to solve proportions, including those with nonwhole-number solutions.	**Analysing Statistics** Students begin to think statistically as they make sense of data. They explore measures of center and variability as ways to describe data.	**Rational Numbers and the Coordinate Plane** This unit extends our base-ten number system to include positive and negative rational numbers, using both number lines and the coordinate plane.

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Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9
Rates, Ratios, and Proportions **Cluster: Understand ratio concepts and use ratio reasoning to solve problems** Big Idea #1- Multiplication and Rates 6.RP.A.2 6.RP.A.3a and b Big Idea #2- Special Rate Situations and Graphing 6.RP.A.2 6.RP.A.3a and b 6.EE.B.6 6.EE.C.9 Big Idea #3- Solve Problems with Ratio and Proportion 6.RP.A.1 6.RP.A.3a Big Idea #4- Identify, Solve, and Write Proportions Situations 6.RP.A.1 6.RP.A.2 6.RP.A.3a 6.NS.B.4	**Area of Polygons** **Cluster: Solve real-world and mathematical problems involving area, surface area, and volume.** Big Idea #1- Derive Area Formulas and Solve Problems: Parallelograms and Triangles 6.G.A.1 6.EE.A.2c **Cluster: Apply and extend previous understandings of arithmetic to algebraic expressions** Big Idea #2- Derive Area Formulas and Solve Problems: Trapezoids and Other Polygons 6.G.A.1 6.G.A.3 6.EE.A.2c 6.EE.A.3 6.EE.A.4 6.EE.B.6	**Operations with Whole Numbers, Fractions, and Decimals** **Cluster: Compute fluently with multi-digit numbers and find common factors and multiples** Big Idea #1- Multiplication and Division of Whole Numbers and Decimals 6.NS.B.2 6.NS.B.3 Big Idea #2- Relating, Composing, and Decomposing Decimals and Fractions 6.NS.B.3 6.NS.B.4 **Cluster: Apply and extend previous understandings of multiplication and division to divide fractions by fractions** Big Idea #3- Multiplying 6.NS.A.1 6.NS.B.3 6.NS.B.4 Big Idea #4- Dividing a Fraction by a Fraction 6.NS.A.1 6.NS.B.3 6.NS.B.4	**Surface Area of Prisms and Pyramids** **Cluster: Solve real-world problems involving area, surface area, and volume** Big Idea #1- Nets and Surface Area of Prisms 6.G.A.1 6.G.A.4 6.EE.A.2c Big Idea #2- Nets and Surface Area of Pyramids 6.G.A.1 6.G.A.4 6.EE.A.2c 6.EE.B.6	**Expressions and Equations** **Cluster: Apply and extend previous understandings of arithmetic to algebraic expressions** Big Idea #1- Writing, Interpreting, and Analysing Expressions 6.EE.A.1 6.EE.A.2a, b, and c 6.EE.A.4 6.G.A.1 6.G.A.4 Big Idea #2- Equivalent Expressions 6.NS.A.4 6.EE.A.1 6.EE.A.2a, b, and c 6.EE.A.3 6.EE.B.4 **Cluster: Represent and analyse quantitative relationships between dependent and independent variables** Big Idea #3- Representing and Describing Quantitative Relationships 6.EE.B.6 6.EE.C.9 **Cluster: Reason about and solve one-variable equations and inequalities** Big Idea #4- Solving Equations and Inequalities 6.EE.A.2a 6.EE.A.3 6.EE.B.5 6.EE.C.6 6.EE.C.7 6.EE.C.8 6.EE.C.9	**Volume of a Rectangular Prism** **Cluster: Solve real-world and mathematical problems involving area, surface area, and volume** Big Idea #1- Volume Formulas for Rectangular Prisms 6.EE.A.2c 6.G.A.1 6.G.A.2 6.G.A.4	**Ratios and Rates with Fractions, Decimals, and Percents** **Cluster: Understand ratio concepts and use ratio reasoning to solve problems** Big Idea #1- Ratios, Fractions, Unit rates, and Cross-Multiplying 6.RP.A.1 6.RP.A.2 6.RP.A.3a and b 6.EE.B.6 6.EE.B.7 Big Idea #2- Ratios with Tape Diagrams and Equations 6.RP.A.1 6.RP.A.2 6.RP.A.3a and b 6.EE.B.6 6.EE.B.7 Big Idea #3- Percent 6.RP.A.3c 6.EE.B.6 6.EE.B.7 **Cluster: Represent and analyse quantitative relationships between dependent and independent variables** Big Idea #4- Relate Different Measurement Units 6.RP.A.3d 6.EE.B.6 6.EE.B.7 6.G.A.1 6.G.A.4	**Analysing Statistics** **Cluster: Develop understanding of statistical variability** Big Idea #1- Displaying Data 6.SP.A.1 6.SP.B.4 6.SP.B.5a **Cluster: Summarize and describe distributions** Big Idea #2- Summarizing Data: The Mean, the Median 6.SP.A.2 6.SP.A.3 6.SP.B.4 6.SP.B.5c and d Big Idea #3- Describing Variability in Data 6.SP.A.1 6.SP.A.2 6.SP.A.3 6.SP.B.4 6.SP.B.5a, b, c, and d	**Rational Numbers and the Coordinate Plane** **Cluster: Apply and extend previous understandings of numbers to the system of rational numbers** Big Idea #1- Discuss, Compare, and Graph Integers 6.NS.C.5 6.NS.C.6a, b, and c 6.NS.C.7a, b, c, and d 6.NS.C.8 Big Idea #2- Discuss, Compare, and Graph Rational Numbers 6.NS.C.5 6.NS.C.6a, b, and c 6.NS.C.7a, b, c, and d 6.NS.C.8 6.G.A.3

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