Math Expressions Fourth 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								
Oct.	Unit 1							Unit 1 Test		Unit 2					Unit 2							Unit 2							Unit 2		
Nov.	Unit 2							Unit 2							Unit 2 Test							Unit 3								
Dec.	Unit 3							Unit 3							Unit 3							Unit 3 Test								
Jan.			Unit 4					Unit 4							Unit 4							Unit 4							Unit 4		
Feb.	Unit 4 Test							Unit 5							Unit 5							Unit 5								
March	Unit 5 Test							Unit 6							Unit 6							Unit 6								
April	Unit 6 Test							Unit 7							Unit 7							Unit 7								
May	Unit 7							Unit 7 Test		Unit 8					Unit 8							Unit 8							Unit 8		
June	Unit 8 Test																													

Unit 1 (20 days)	Unit 2 (26 days)	Unit 3 (17 days)	Unit 4 (20 days)	Unit 5 (13 days)	Unit 6 (16 days)	Unit 7 (19 days)	Unit 8 (19 days)
Place Value and Multidigit Addition and Subtraction Students use place value to compare and round multidigit numbers. They use place value concepts and grouping and ungrouping methods to add and subtract multidigit numbers.	**Multiplication with Whole Numbers** Students use place value, area models, and numerical methods to multiply one-digit numbers by two-, three-, and four-digit numbers. They also solve two-digit by two-digit multiplication problems.	**Division with Whole Numbers** Students adapt methods they learned for multiplying to divide with whole numbers. They interpret quotients and remainders in the context of real world problems.	**Equations and Word Problems** Students write and solve equations to solve real world problems involving addition, subtraction, multiplication, and division. They also find factors and multiples of whole numbers, and identify and extend numerical and geometric patterns.	**Measurement** Students develop their understanding of U.S. Customary and metric measurement units, including converting from larger units to smaller units. Students apply their knowledge to area and perimeter formulas.	**Fraction Concepts and Operations** This unit introduces basic fraction concepts and building fractions from unit fractions. Students apply fraction concepts to add and subtract fractions and mixed numbers with like denominators and multiply whole numbers by fractions.	**Fractions and Decimals** Students compare fractions with like and unlike denominators. They model related fractions, mixed numbers, and decimals.	**Geometry** Students classify and draw angles, triangles, and quadrilaterals. They identify and draw parallel and perpendicular lines, as well as lines of symmetry in geometric figures.

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First Introduction of Standard

Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8
Place Value and Multi-digit Addition and Subtraction **Cluster: Generalize place value understanding for multi-digit whole numbers.** Big Idea#1- Place Value to One Million 4.NBT.A.1 4.NBT.A.2 4.NBT.A.3 **Cluster: Use place value understanding and properties of operations to perform multi-digit arithmetic** Big Idea #2- Addition with Greater Numbers 4.OA.A.3 4.NBT.A.3 4.NBT.B.4 4.MD.A.2 **Cluster: Use place value understanding and properties of operations to perform multi-digit arithmetic** Big Idea #2- Subtraction with Greater Numbers 4.NBT.A.2 2.NBT.A.3 4.NBT.B.4 4.MD.A.2	**Multiplication with Whole Numbers** **Cluster: Generalize place value understanding for multi-digit whole numbers.** Big Idea #1- Multiplication with Tens and Hundreds 4.NBT.A.1 4.NBT.B.5 **Cluster: Use place value understanding and properties of operations to perform multi-digit arithmetic** Big Idea #2- Multiply by One-Digit Numbers 4.OA.A.3 4.NBT.A.2 4.NBT.A.3 4.NBT.B.5 4.MD.A.2 Big Idea #3- Multiplication with Two-Digit Numbers 4OA.A.3 4.NBT.A.2 4.NBT.B.5 Big Idea #4- Multiplication with Thousands 4.OA.A.3 4.NBT.A.2 4.NBT.A.3 4.NBT.B.5 4.MD.A.2	**Division with Whole Numbers** **Cluster: Use place value understanding and properties of operations to perform multi-digit arithmetic** Big Idea #1- Dividing Whole Numbers 4.NBT.B.6 **Cluster: Generalize place value understanding for multi-digit whole numbers.** Big Idea #2- Division Issues and Word Problems 4.OA.A.3 4.NBT.A.3 4.NBT.B.6	**Equations and Word Problems** **Cluster: Use place value understanding and properties of operations to perform multi-digit arithmetic** Big Idea #1- Reasoning and Solving Problems 4.NBT.B.4 4.NBT.B.5 4.NBT.B.6 4.MD.A.2 **Cluster: Use the four operations with whole numbers to solve problems** Big Idea #2- Comparison Word Problems 4.OA.A.1 4.OA.A.2 Big Idea #3- Problems with More Than One Step 4.OA.A.3 **Cluster: Gain familiarity with factors and multiples. Generate and analyse patterns.** Big Idea #4- Analyzing Patterns 4.OA.A.1 4.OA.A.2 4.OA.A.3 4.OA.B.4 4.OA.C.5 4.NBT.B.4 4.NBT.B.5 4.NBT.B.6 4.MD.A.2	**Measurement** **Cluster: Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.** Big Idea #1- Converting Measurements 4.MD.A.1 4.MD.A.2 4.MD.B.4 Big Idea #2- Perimeter and Area 4.MD.A.1 4.MD.A.2 4.MD.A.3	**Fraction Concepts and Operations** **Cluster: Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.** Big Idea #1- Fractions with Like Denominators 4.NF.A.2 4.NF.B.3a and b and d 4.NF.B.4a 4.MD.A.2 Big Idea #2- Mixed Numbers with Like Denominators 4.NF.A.2 4.NF.B.3a and b and c and d 4.MD.A.2 4.MD.B.4 Big Idea #3- Multiply Fractions and Whole Numbers 4.NF.A.2 4.NF.B.3a and b and c and d 4.nf.b.4a	**Fractions and Decimals** **Cluster: Extend understanding of fraction equivalence and ordering** Big Idea #1- Comparing Fractions 4.NF.A.2 **Cluster: Represent and interpret data.** Big Idea #2- Equivalent Fractions 4.NF.A.1 4.NF.A.2 4.NF.C.5 4.MD.B.4 **Cluster: Understand decimal notation for fractions, and compare decimal fractions.** Big Idea #3- Understand Decimals 4.NF.A.1 4.NF.A.2 4.NF.C.6 4.NF.C.7 4.MD.A.2 4.MD.B.4	**Geometry** **Cluster: Geometric measurement: understand concepts of angle and measure angles.** Big Idea #1- Measuring and Drawing Angles 4.MD.C.5a and b 4.MD.C.6 4.MD.C.7 4.G.A.1 **Cluster: Draw and identify lines and angles, and classify shapes by properties of their lines and angles** Big Idea #2- Triangles and Angle Measurement 4.MD.C.6 4.MD.C.7 4.G.A.1 4.G.A.2 Big Idea #3- Analyzing Quadrilaterals 4.G.A.1 4.G.A.2 Big Idea #4- Analyzing Polygons 4.OA.C.5 4.G.A.1 4.G.A.2 4.G.A.3