Critical Areas	Domains	Clusters
Developing understanding and fluency with multi-digit multiplication, and developing understanding of dividing to find quotients involving multi-digit dividends	**4.OA** Operations and Algebraic Thinking	**Use the four operations with whole numbers to solve problems.** Standards: 4.OA.1, 4.OA.2, 4.OA.3 **Gain familiarity with factors and multiples.** Standard: 4.OA.4 **Generate and analyze patterns.** Standard: 4.OA.5
	4.NBT Number and Operations in Base Ten	**Generalize place value understanding for multi-digit whole numbers.** Standards: 4.NBT.1, 4.NBT.2, 4.NBT.3 **Use place value understanding and properties of operations to perform multi-digit arithmetic.** Standards: 4.NBT.4, 4.NBT.5, 4.NBT.6
Developing an understanding of fraction equivalence, addition and subtraction of fractions with like denominators, and multiplication of fractions by whole numbers	**4.NF** Number and Operations— Fractions	**Extend understanding of fraction equivalence and ordering.** Standards: 4.NF.1, 4.NF.2 **Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.** Standards: 4.NF.3, 4.NF.4 **Understand decimal notation for fractions, and compare decimal fractions.** Standards: 4.NF.5, 4.NF.6, 4.NF.7
	4.MD Measurement and Data	**Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.** Standards: 4.MD.1, 4.MD.2, 4.MD.3 **Represent and interpret data.** Standard: 4.MD.4 **Geometric measurement: understand concepts of angle and measure angles.** Standards: 4.MD.5, 4.MD.6, 4.MD.7
Understanding that geometric figures can be analyzed and classified based on their properties, such as having parallel sides, perpendicular sides, particular angle measures, and symmetry	**4.G** Geometry	**Draw and identify lines and angles, and classify shapes by properties of their lines and angles.** Standards: 4.G.1, 4.G.2, 4.G.3

The alignment of Critical Areas with Domains and Clusters is not straightforward in some cases.
This chart shows one interpretation for Grade 4.

Grade 4 Topics	Grade 4 Big Ideas
Topic 1 Multiplication and Division: Meanings and Facts **Topic 2** Generate and Analyze Patterns	• Basic Facts and Algorithms • Operation Meanings and Relationships • Patterns, Relations, and Functions • Properties • Variable • Practices, Processes, and Proficiencies
Topic 3 Place Value **Topic 4** Addition and Subtraction of Whole Numbers **Topic 5** Number Sense: Multiplying by 1-Digit Numbers **Topic 6** Developing Fluency: Multiplying by 1-Digit Numbers **Topic 7** Number Sense: Multiplying by 2-Digit Numbers **Topic 8** Developing Fluency: Multiplying by 2-Digit Numbers **Topic 9** Number Sense: Dividing by 1-Digit Divisors **Topic 10** Developing Fluency: Dividing by 1-Digit Divisors	• Basic Facts and Algorithms • The Base-Ten Numeration System • Comparison and Relationships • Equivalence • Estimation • Operation Meanings and Relationships • Patterns, Relations, and Functions • Practices, Processes, and Proficiencies
Topic 11 Fraction Equivalence and Ordering **Topic 12** Adding and Subtracting Fractions and Mixed Numbers with Like Denominators **Topic 13** Extending Fraction Concepts	• Basic Facts and Algorithms • The Base-Ten Numeration System • Comparison and Relationships • Equivalence • Number Uses, Classification, and Representation • Numbers and the Number Line • Operation Meanings and Relationships • Practices, Processes, and Proficiencies
Topic 14 Measurement Units and Conversions **Topic 15** Solving Measurement Problems	• Data Collection and Representation • Estimation • Measurement • Patterns, Relations, and Functions • Practices, Processes, and Proficiencies
Topic 16 Lines, Angles, and Shapes	• Geometric Figures • Measurement • Practices, Processes, and Proficiencies