Cluster Emphasis	Domain	Cluster	Standard	
Major Clusters	Operations and Algebraic Thinking	*Represent and solve problems involving multiplication and division.*	3.OA.1	
			3.OA.2	
			3.OA.3	✓
			3.OA.4	
		Understand the properties of multiplication and the relationship between multiplication and division.	3.OA.5	
			3.OA.6	
		Multiply and divide within 100.	3.OA.7	
		Solve problems involving the four operations, and identify and explain patterns in arithmetic.	3.OA.8	✓
			3.OA.9	
	Number and Operations – Fractions	*Develop understanding of fractions as numbers.*	3.NF.1	
			3.NF.2	
			3.NF.3	✓
	Measurement and Data	*Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.*	3.MD.1	
			3.MD.2	
		Geometric measurement: understand concepts of area and relate area to multiplication and to addition.	3.MD.5	
			3.MD.6	
			3.MD.7	✓
Supporting Clusters	Measurement and Data	*Represent and interpret data.*	3.MD.3	
			3.MD.4	*Post*
	Geometry	*Reason with shapes and their attributes.*	3.G.1	*Post*
			3.G.2	
Additional Clusters	Number and Operations in Base Ten	*Use place value understanding and properties of operations to perform multi-digit arithmetic.*	3.NBT.1	
			3.NBT.2	
			3.NBT.3	
	Measurement and Data	*Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.*	3.MD.8	*Post*

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Cluster Emphasis	Domain	Cluster	Standard		
Major Clusters	Operations and Algebraic Thinking	*Represent and solve problems involving multiplication and division.*	4.OA.1		
			4.OA.2	✓	
			4.OA.3		
	Number and Operations in Base Ten	*Generalize place value understanding for multi-digit whole numbers.*	4.NBT.1		
			4.NBT.2		
			4.NBT.3		
		Use place value understanding and properties of operations to perform multi-digit arithmetic.	4.NBT.4		
			4.NBT.5	✓	
			4.NBT.6		
	Number and Operations – Fractions	*Extend understanding of fraction equivalence and ordering.*	4.NF.1		
			4.NF.2		
		Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.	4.NF.3	✓	
			4.NF.4	✓	
		Understand decimal notation for fractions, and compare decimal fractions.	4.NF.5		*Post*
			4.NF.6	✓	*Post*
			4.NF.7	✓	*Post*
Supporting Clusters	Operations and Algebraic Thinking	*Gain familiarity with factors and multiples.*	4.OA.4		
	Measurement and Data	*Solve problems involving measurements and conversion of measurements from a larger unit to a smaller unit.*	4.MD.1		*Post*
			4.MD.2		*Post*
			4.MD.3		
		Represent and interpret data.	4.MD.4		
Additional Clusters	Operations and Algebraic Thinking	*Generate and analyze patterns.*	4.OA.5		
	Measurement and Data	*Geometric measurement: understand concepts of angles and measure angles.*	4.MD.5		
			4.MD.6		
			4.MD.7		
	Geometry	*Draw and identify lines and angles, and classify shapes by properties of their lines and angles.*	4.G.1		
			4.G.2		
			4.G.3		

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Cluster Emphasis	Domain	Cluster	Standard	
Major Clusters	Number and Operations in Base Ten	*Understand the place value system.*	5.NBT.1	
			5.NBT.2	
			5.NBT.3	
		Perform operations with multi-digit whole numbers and with decimals to hundredths.	5.NBT.4	
			5.NBT.5	✓
			5.NBT.6	✓
			5.NBT.7	✓
	Number and Operations – Fractions	*Use equivalent fractions as a strategy to add and subtract fractions.*	5.NF.1	
			5.NF.2	✓
		Apply and extend previous understandings of multiplication and division to multiply and divide fractions.	5.NF.3	
			5.NF.4	
			5.NF.5	
			5.NF.6	✓
			5.NF.7	✓
	Measurement and Data	*Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.*	5.MD.3	
			5.MD.4	
			5.MD.5	
Supporting Clusters	Measurement and Data	*Convert like measurement units within a given measurement system.*	5.MD.1	
		Represent and interpret data.	5.MD.2	
Additional Clusters	Operations and Algebraic Thinking	*Write and interpret numerical expressions.*	5.OA.1	
			5.OA.2	
		Analyze patterns and relationships.	5.OA.3	*Post*
	Geometry	*Graph points on the coordinate plane to solve.*	5.G.1	*Post*
			5.G.2	*Post*
		Classify two-dimensional figures into categories based on their properties.	5.G.3	
			5.G.4	

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Cluster Emphasis	Domain	Cluster	Standard	
Major Clusters	Ratios and Proportional Relationships	*Understand ratio concepts and use ratio reasoning to solve problems.*	6.RP.1	
			6.RP.2	
			6.RP.3	✓
	The Number System	*Apply and extend previous understandings of multiplication and division to divide fractions by fractions.*	6.NS.1	
		Apply and extend previous understandings of numbers to the system of rational numbers.	6.NS.5	
			6.NS.6	
			6.NS.7	
			6.NS.8	
	Expressions and Equations	*Apply and extend previous understandings of arithmetic to algebraic expressions.*	6.EE.1	
			6.EE.2	
			6.EE.3	
			6.EE.4	
		Reason about and solve one-variable equations and inequalities.	6.EE.5	
			6.EE.6	
			6.EE.7	✓
			6.EE.8	
		Represent and analyze quantitative relationships between dependent and independent variables.	6.EE.9	
Supporting Clusters	Measurement and Data	*Solve real-world and mathematical problems involving area, surface area, and volume.*	6.G.1	
			6.G.2	
			6.G.3	
			6.G.4	
Additional Clusters	The Number System	*Compute fluently with multi-digit numbers and find common factors and multiples.*	6.NS.2	
			6.NS.3	
			6.NS.4	
	Statistics and Probability	*Develop understanding of statistical variability.*	6.SP.1	✓ *Post*
			6.SP.2	*Post*
			6.SP.3	✓ *Post*
		Summarize and describe distributions.	6.SP.4	*Post*
			6.SP.5	*Post*

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Cluster Emphasis	Domain	Cluster	Standard	
Major Clusters	Ratios and Proportional Relationships	*Analyze proportional relationships and use them to solve real-world and mathematical problems.*	7.RP.1	
			7.RP.2	✓
			7.RP.3	✓
	The Number System	*Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.*	7.NS.1	
			7.NS.2	
			7.NS.3	✓
	Expressions and Equations	*Use properties of operations to generate equivalent expressions.*	7.EE.1	✓
			7.EE.2	
		Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	7.EE.3	✓
			7.EE.4a	✓
			7.EE.4b	
Supporting Clusters	Statistics and Probability	*Use random sampling to draw inferences about a population.*	7.SP.1	
			7.SP.2	
		Investigate chance processes and develop, use, and evaluate probability models.	7.SP.5	
			7.SP.6	
			7.SP.7	
			7.SP.8	
Additional Clusters	Geometry	*Draw, construct, and describe geometrical figures and describe the relationships between them.*	7.G.1	
			7.G.2	*Post*
			7.G.3	*Post*
		Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.	7.G.4	
			7.G.5	*Post*
			7.G.6	*Post*
	Statistics and Probability	*Draw informal comparative inferences about two populations.*	7.SP.3	
			7.SP.4	

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Cluster Emphasis	Domain	Cluster	Standard		
Major Clusters	Expressions and Equations	*Work with radicals and integer exponents.*	8.EE.1		
			8.EE.2		*Post*
			8.EE.3		
			8.EE.4		
		Understand the connections between proportional relationships, lines, and linear equations.	8.EE.5	✓	
			8.EE.6		
		Analyze and solve linear equations and pairs of simultaneous linear equations.	8.EE.7		
			8.EE.8	✓	
	Functions	*Define, evaluate, and compare functions.*	8.F.1		
			8.F.2		
			8.F.3	✓	
		Use functions to model relationships between quantities.	8.F.4	✓	
			8.F.5		
	Geometry	*Understand and apply the Pythagorean Theorem.*	8.G.6	✓	*Post*
			8.G.7	✓	*Post*
			8.G.8	✓	*Post*
		Understand congruence and similarity using physical models, transparencies, or geometry software.	8.G.1		
			8.G.2		
			8.G.3		
			8.G.4		
			8.G.5		
Supporting Clusters	Number System	*Know that there are numbers that are not rational, and approximate them by rational numbers.*	8.NS.1		*Post*
			8.NS.2		*Post*
	Statistics and Probability	*Investigate patterns of association in bivariate data.*	8.SP.1		
			8.SP.2		
			8.SP.3		
			8.SP.4		
Additional Clusters	Geometry	*Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.*	8.G.9		

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