

Mathematics	Units	CCSS	F	W	S	End
Operations and Algebraic Thinking						
Uses the four operations to solve multi-step word problems and estimates to assess reasonableness of answers (problem-solving)	U1, U3, U8	4.OA.A.1 4.OA.A.2 4.OA.A.3	x	x	x	x
Finds all factor pairs for a number in the range 1-100 (computational)	U1, U3	4.OA.B.4	x			
Determines whether a number in the range of 1-100 is prime or composite (computational)	U1, U3	4.OA.B.4	x			
Creates a number or shape pattern that follows a given rule (math reasoning)	U8, U9	4.OA.C.5				x
Number and Operations in Base Ten						
Reads, writes, and compares multi-digit whole numbers (math reasoning)	U4, U5, U6	4.NBT.A.1 4.NBT.A.2		x		
Uses place value understanding to round multi-digit whole numbers to any place (computational)	U5	4.NBT.A.3		x		
Fluently adds multi-digit whole numbers (computational)	U4, U5	4.NBT.B.4	x	x	x	x
Fluently subtracts multi-digit whole numbers (computational)	U4, U5	4.NBT.B.4	x	x	x	x
Multiplies a number of up to four digits by a one-digit number and illustrates and explains (math reasoning)	U3, U8, U9	4.NBT.B.5	x	x	x	x
Multiplies two two-digit numbers and illustrates and explains (math reasoning)	U3, U8, U9	4.NBT.B.5			x	x
Divides a number of up to four-digits by a one-digit divisor (with remainders) and illustrates and explains (math reasoning)	U3, U8, U9	4.NBT.B.6	x	x	x	x
Number and Operations- Fractions						
Recognizes and generates equivalent fractions and explains using visual fraction models (math reasoning)	U6	4.NF.A.1			X	
Compares two fractions with different numerators and different denominators using $>$, $=$, $<$ and justifies the conclusion (math reasoning)	U6	4.NF.A.2			X	
Composes and decomposes fractions into unit fractions, e.g. $3/8 = 1/8 + 1/8 + 1/8$, and illustrates using a visual fraction model (math reasoning)	U6	4.NF.B.3a 4.NF.B.3b			X	
Adds and subtracts mixed numbers with like denominators (computational)	U6	4.NF.B.3c			X	
Solves word problems involving addition and subtraction of fractions having like denominators (problem solving)	U6	4.NF.B.3d			X	
Multiplies a fraction by a whole number, e.g. $6/5 = 6 \times 1/5$ or $6/5 = 3 \times 2/5$, and illustrates using a visual fraction model (math reasoning)	U6	4.NF.B.4a 4.NF.B.4b			X	
Solves word problems involving multiplication of a fraction by a whole number (problem solving)	U6	4.NF.B.4c			X	
Expresses a fraction with denominator 10 as an equivalent fraction with denominator 100 in order to add two fractions with respective denominators 10 and 100 (math reasoning)	U6	4.NF.C.5			X	
Uses decimal notation for fractions with denominators 10 or 100 (computational)	U6	4.NF.C.6			X	
Compares two decimals to the hundredths place using $>$, $=$, $<$ and justifies the conclusion (math reasoning)	U6	4.NF.C.7			X	
Measurement and Data						
Within a single system of measurement, expresses measurements in a larger unit in terms of a smaller unit, e.g 4 feet equals 48 inches (computational)	U4, U9	4.MD.A.1		X?		x
Uses the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money (problem solving)	U4, U5, U6	4.MD.A.2		x	X ?	x
Solves problems by applying area and perimeter formulas for rectangles (problem solving)	U4	4.MD.A.3		x		
Creates a line plot to display a data set of measurements in fractions of	U6, U9	4.MD.B.4				x

a unit and solves problems involving addition and subtraction using the data (math reasoning)						
Measures angles using a protractor and solves to find unknown angles (math reasoning)	U4	4.MD.C.5 4.MD.C.6 4.MD.C.7		x		
Geometry						
Draws and identifies lines and angles and classifies shapes by properties of their lines and angles (math reasoning)	U4	4.G.A.1 4.G.A.2		X		
Recognizes and draws lines of symmetry (math reasoning)	U4	4.G.A.3		x		