ALD	Standard	Novice	Partially Proficient	Proficient	Advanced
Policy		The Level 1 student is below proficient in applying mathematics knowledge/skills as specified in the standards. The student generally performs significantly below the standard for the grade level/course, is likely able to partially access grade-level content, and engages with higher-order thinking skills with extensive support.	The Level 2 student is approaching proficient in applying mathematics knowledge/skills as specified in the standards. The student generally performs slightly below the standard for the grade level/course, is able to access grade-level content, and engages in higher-order thinking skills with some independence and support.	standards. The student generally performs at the standard for the grade level/course, is able to access grade-level content, and engages in higher-order thinking	The Level 4 student is highly proficient in applying mathematics knowledge/skills as specified in the standards. The student generally performs significantly above the standard for the grade level/course, is able to access above grade-level content, and engages in higher-order thinking skills independently.
			Operations and Algebraic T		
	5.04.4	The Level 1 Student:	The Level 2 Student:	The Level 3 Student:	The Level 4 Student:
Range	5.OA.1	Evaluates a simple numerical expression using parentheses, brackets, or braces (without nesting).	Evaluates a numerical expression using parentheses, brackets, or braces (without nesting).		Inserts parentheses, brackets, or braces (without nesting), in numerical equations to make a statement true.
Range	5.OA.2	Writes a numerical expression, using one operation, from a written statement (e.g., divide 144 by 12).	Writes simple numerical expressions (limited to inverse operations) and interprets numerical expressions without evaluating them.	Writes numerical expressions (limited to two operations; e.g., "divide 144 by 12, and then subtract 9") and interprets numerical expressions without evaluating them.	
Range	5.OA.3	Continues two numerical patterns (when given a table), using two given rules.	Continues two numerical patterns using two given rules.	Generates two numerical patterns using two given rules. Identifies apparent relationships between corresponding terms.	Generates two numerical patterns using two multi-step given rules, in mathematical contexts. Explains the relationship between corresponding terms.
Range	5.OA.4	Finds factor pairs for multiples of 10 in the range of 1 to 50. Determines whether a whole number in the range of 1 to 25 is prime or composite, given visual representations (such as arrays, hundreds chart, number line).	Finds all factor pairs for whole numbers in the range of 1 to 100. Determines whether a whole number in the range of 1 to 50 is prime or composite, given visual representations (such as arrays, hundreds chart, number line).	Recognizes that a whole number is a multiple of each of its factors and determines a given whole number in the range of 1 to 100 is a multiple of a given single-digit number (i.e., given 56, determine whether or not 8 is a factor). Determines whether a whole number in the range of 1 to 100 is prime or composite.	Applies the concepts of both factors and prime and composite numbers in problem-solving contexts.
			Number and Operations in B	ase Ten	
		The Level 1 Student:	The Level 2 Student:	The Level 3 Student:	The Level 4 Student:

ALD	Standard	Novice	Partially Proficient	Proficient	Advanced
Range	5.NBT.1	Uses visual models or calculation (in any multi-digit whole number) to demonstrate a digit in one place represents 10 times as much as it represents in the place to its right, or 1/10 of what it represents in the place to its left.	any multi-digit whole number) to recognize that a digit in one place represents 10 times as much as it represents in the place to its right and	Recognizes (in any multi-digit number, including decimals to thousandths) that a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.	
Range	5.NBT.2	the number of zeroes of the product	Recognizes patterns in the number of zeroes of products when multiplying a number by powers of 10. Can use whole number exponents greater than zero to denote powers of 10.	Explains patterns in the number of zeroes of the product when multiplying a number by powers of 10, and explains patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Uses whole-number exponents to denote powers of 10, including 10 to the power of zero.	Interprets a multiplication problem to identify the power of 10 by which one number is greater or less than another.
Range	5.NBT.3a	Reads decimals to the thousandths place.	Reads and writes decimals to the thousandths place, using base 10 numerals and number names.	Reads and writes decimals to the thousandths place, using base 10 numerals, number names, and expanded form (e.g., 347.392 = 3 X 100 + 4 X 10 + 7 X 1 + 3 X (1/10) + 9 X (1/100) + 2 X (1/1000).	Writes numbers in expanded form in a variety of formats (e.g., 347.392 = 7 X 1 + 3.4 X 100 + 3 X (1/10) + 2 X (1/1000) + (1/100) X 9).
Range	5.NBT.3b	Compares two decimals to the tenths place, using >, =, and < symbols to record the results of comparisons.	Compares two decimals to the hundredths place, using >, =, and < symbols to record the results of comparisons.	Compares two decimals to the thousandths place (with varying place values), using >, =, and < symbols to record the results of comparisons.	
Range	5.NBT.4	Uses place value understanding to round multi-digit numbers to the tenths place.	Uses place value understanding to round multi-digit whole numbers to the hundredths place.	Uses place value understanding to round multi-digit numbers up to any place (within content limits).	Uses rounding strategies in real-world situations.
Range	5.NBT.5	Multiplies two two-digit numbers using strategies, including a standard algorithm.	Multiplies three-digit by two-digit whole numbers, using strategies, including a standard algorithm.	Fluently multiplies multi-digit whole numbers using strategies, including a standard algorithm.	Fluently multiplies multi-digit whole numbers, in real-world and mathematical contexts, using strategies, including a standard algorithm.

ALD	Standard	Novice	Partially Proficient	Proficient	Advanced
Range	5.NBT.6	Finds whole-number quotients of whole numbers (with up to two-digit dividends and two-digit divisors), using rectangular arrays or area models.	Finds whole-number quotients of whole numbers (with up to three-digit dividends and two-digit divisors), using strategies based on place value and the properties of operations.	Finds whole-number quotients of whole numbers (with up to four digit dividends and two-digit divisors), using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrates and explains the calculation by using equations, rectangular arrays, and/or area models.	Finds whole-number quotients of whole numbers (with up to four-digit dividends and two-digit divisors) in context.
Range	5.NBT.7	Adds, subtracts, multiplies, and divides decimals to the tenths place, using concrete models, drawings, or strategies based on place value.	Adds, subtracts, multiplies, and divides decimals to the hundredths place, using concrete models or drawings, strategies based on place value, and/or the relationship between addition and subtraction; relates the strategy to a written method.	Adds, subtracts, multiplies, and divides decimals to the hundredths place, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relates the strategy to a written method and explains the reasoning used.	Adds, subtracts, multiplies, and divides decimals to the hundredths place, using multiple strategies, in a real-world or mathematical context.
			Number and Operations - Fr		
Range	5.NF.1	The Level 1 Student: Adds/subtracts fractions with unlike denominators, where one	The Level 2 Student: Adds/subtracts fractions with unlike denominators, where one denominator is a multiple of the other	The Level 3 Student: Adds/subtracts fractions with unlike denominators (including mixed numbers) by replacing given fractions	The Level 4 Student: Adds/subtracts at least 3 or more fractions with unlike denominators
		denominator is a multiple of the other denominator. Can determine a common denominator with use of a visual model (no regrouping or mixed numbers involved).	denominator (no regrouping involved).	with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.	(including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.

ALD	Standard	Novice	Partially Proficient	Proficient	Advanced
Range		models to solve problems involving	Solves word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers.	Interprets a fraction as division of the numerator by the denominator $(a/b = a \div b)$; solves word problems involving division of whole numbers, leading to answers in the form of fractions or mixed numbers.	Creates his or her own model to demonstrate division of fractions.
Range	5.NF.4b		Shows the product of two fractions by using an area model.	Shows the product of two fractions using an area model. Finds the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths, and shows that the area is the same as would be found by multiplying the side lengths. Multiplies fractional side lengths to find areas of rectangles, and represents fraction products as rectangular areas.	Creates a real-world context and models representing multiplication of fractions. Demonstrates reasoning about fractions in both an additive and multiplicative sense with different wholes, and displays the quantities with visual models.
Range	5.NF.5b 5.NF.5c	comparing the size of a product to the	size of one factor on the basis of the size of the second factor, without	Interprets multiplication scaling by comparing the size of a product to the size of one factor on the basis of the size of the second factor, without performing the indicated multiplication, focusing on one factor being a fraction greater than or lesser than one.	Interprets multiplication scaling by comparing the size of a product to the size of one factor on the basis of the size of the second factor by performing the indicated multiplication with 2 fractions.
Range		Solves real-world problems involving multiplication of fractions by using visual fraction models or equations to represent the problem (limited to fractions with single-digit numerators or denominators).	Solves real-world problems involving multiplication of fractions by using visual fraction models or equations to represent the problem.	Solves real-world problems involving multiplication of fractions and mixed numbers.	Uses several mixed numbers, often with multi-digit numerators or denominators, to solve real-world problems.
Range		division of whole numbers by unit fractions, using visual fraction models and equations to represent the problem.	division of unit fractions by non-zero	Solves real-world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, using visual fraction models and equations to represent the problem.	Creates real-world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, using visual fraction models and equations to represent the problem.

ALD	Standard	Novice	Partially Proficient	Proficient	Advanced
		The Level 1 Student:	The Level 2 Student:	The Level 3 Student:	The Level 4 Student:
Range	5.MD.1	Converts among different-sized standard measurement units within a given measurement system.	Converts among different-sized standard measurement units within a given measurement system; uses these conversions to solve singlestep problems, using manipulatives or visual models.	Converts among different-sized standard measurement units within a given measurement system; uses these conversions in solving multistep, real-world problems.	Creates real-world, multi-step problems. Chooses the appropriate measurement unit based on the given context.
Range	5.MD.2	Plots data on a given line plot with a data set of measurements in fractions of a unit (1/2, 1/4, 1/8), where the given data set is limited to a common denominator. Solves addition and subtraction comparison problems using the data.			Makes a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Solves multi-step word problems using the four operations and interprets the solution to the data.
Range	5.MD.3 5.MD.4	Uses unit cubes to find the volume of rectangular prisms with whole-number edges (limited to single-digit dimensions).	Uses unit cubes (number of unit cubes, edge length, height) to find the volume of rectangular prisms. Uses the information that the number of unit cubes is related to the edge length; uses visual models.	Uses unit cubes (number of unit cubes, edge length, height) to find the volume of rectangular prisms. Represents the volume of a solid figure as <i>n</i> cubic units (including cubic cm, cubic in., cubic ft., and improvised units).	Compares the volumes of different prisms by using unit cubes.
Range	5.MD.5a 5.MD.5b 5.MD.5c 5.MD.5d	Solves volume problems of a right rectangular prism by using unit cubes.	Solves volume problems by relating the number of unit cubes in a prism to the multiplication of the edge lengths.	Solves real-world and mathematical problems by applying the formulas for volume. Finds the volume of two non-overlapping right rectangular prisms by adding the volumes of the two non-overlapping parts.	Creates real-world mathematical problems that would be solved by finding volume.
Range		Identifies the key components of the coordinate plane (x-axis, x-coordinate, y-axis, y-coordinate, and origin). Locates given points in the first quadrant of the coordinate plane.		Represents real-world and mathematical problems by locating and graphing points in the first quadrant of the coordinate plane.	Using real-world data, creates a representation and draws conclusions based on the data presented.
Range		Identifies two-dimensional (fifth grade) figures based on properties limited to sides and angles.	grade) figures into categories based	Understands that attributes belonging to a category of two-dimensional (fifth grade) figures also belong to all subcategories of that category and classifies two-dimensional (fifth grade) figures in the hierarchy based on these properties.	Draws or constructs specific two-dimensional figures according to the definitions provided, attributes described, or categories given.