	MA 3.1 NUMBER		**Students will communicate number sense concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.**		L to J Quizzes
	MA 3.1.1		**Numeric Relationships:** Students will demonstrate, represent, and show relationships among whole numbers and simple fractions within the base-ten number system.		

	MA 3.1.1a	4, 7, 11, 12, 32, 33	Read, write, and demonstrate multiple equivalent representations for numbers up to 100,000 using objects, visual representations, including standard form, expanded form, and expanded notation.	Cummulative Tests 1,2,3,7 Benchmark Tests 1, 2	L to J Quizzes
	MA 3.1.1.b	17, 27, 103	Compare whole numbers through the hundred thousands and represent the comparisons using the symbols >, <, or =.	Cummulative Tests 4, 6, 21 Benchmark Tests 1, 2,5	L to J Quizzes
	MA 3.1.1.c	5, 30, 93, 95	Round a whole number to the tens or hundreds place,	Cummulative Tests 1, 6, 19 Benchmark Tests 1,	L to J Quizzes

			using place value understanding or a visual representation.	2,5	
	MA 3.1.1.d	48	Represent and understand a fraction as a number on a number line.	Cummulative Test 10 Benchmark Test 3	L to J Quizzes
	MA 3.1.1.e	46, 48	Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers.	Cummulative Test 10 Benchmark Test 3	L to J Quizzes
	MA 3.1.1.f	46, 47, 48	Show and identify equivalent fractions using visula representations including pictures, manipulatives, and number lines.	Cummulative Test 10 Benchmark Test 3	L to J Quizzes

	MA 3.1.1.g	5, 29, 41, 42, 43, 44, 46, 47, 49, 82, 85	Find parts of a whole and parts of a set using visual representations.	Cummulative Tests 1, 6,9,10, 17 Benchmark Tests 1, 2, 3,4	L to J Quizzes
	MA 3.1.1.h	5, 29, 35, 87	Explain and demonstrate how fractions ¼, ½, ¾ and a whole relate to time, measurement, and money, and demonstrate using visual representation.	Cummulative Tests 1, 6, 7, 18 Benchmark Tests 1, 2, 5	L to J Quizzes
	MA 3.1.1.i	43, 49	Compare and order fractions having	Cummulative Tests 9, 10	L to J Quizzes

			the same numerators or denominators using visual representations, comparison symbols, and verbal reasoning.	Benchmark Tests 3	
	MA 3.1.2		**Operations:** Students will demonstrate the meaning of multiplication and division with whole numbers and compute accurately.		L to J Quizzes
	MA 3.1.2.a	6, 7, 8, 10, 13, 14, 16, 19, 23, 24, 28, 30, 40	Add and subtract within 1,000 with or without regrouping.	Cummulative Tests 2, 3, 4, 5, 6, 8 Benchmark Tests 1, 2	L to J Quizzes
	MA 3.1.2.b	9, 10, 36, 40	Select and apply	Cummulative	L to J

			the appropriate methods of computation when solving one- and two- step addition and subtraction problems with four-digit whole numbers through the thousands (e.g., visual representations, mental computation, paper-pencil).	Tests 2, 8 Benchmark Tests 1,2	Quizzes
	MA 3.1.2c	54, 55, 57, 59, 60, 61, 62, 63	Use drawings, words, arrays, symbols, repeated addition, equal groups,and number lines to explain the meaning of multiplicat	Cummulative Tests 11,12, 13 Benchmark Tests 3, 4	L to J Quizzes

			ion.		
	MA 3.1.2.d	56	Use words and symbols to explain the meaning of the Zero Property and Identity Property of multiplication.	Cummulative Test 12 Benchmark Test 3	L to J Quizzes
	MA 3.1.2.e	56, 78	Multiply one digit whole numbers by multiples of 10 in the range of 10 to 90.	Cummulative Tests 12, 16 Benchmark Tests 3,4	L to J Quizzes
	MA 3.1.2.f	82, 83, 85, 86, 89, 90	Use objects, drawings, arrays, words, and symbols to explain the relationship between multiplication and division (e.g., if 3 times 4 equals 12, then 12 divided by 3 equals 4.	Cummulative Tests 17, 18 Benchmark Test 5	L to J Quizzes

	MA 3.1.2.g	54, 55, 56, 59, 61, 64, 70, 76, 81, 82, 83, 86, 89	Fluently (i.e. automatic recall based on understanding) multiply and divide within 100.	Cummulative Tests 11, 12, 13,14, 16, 17, 18 Benchmark Tests 3. 4. 5	L to J Quizzes
	MA 3.1.2.h	15, 30, 92, 94, 95	Determine the reasonableness of whole number sums and differences in real-worlk problems using estimation, compatible numbers, mental computations, or other strategies.	Cummulative Tests 3, 6, 19 Benchmark Tests 1, 2, 5	L to J Quizzes

	MA 3.2 ALGEBRA		**Students will communicate algebraic concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.**		
	MA 3.2.1 Algebraic Relationships:		Students will demonstrate, represent, and show relationships with expressions and equations.		L to J Quizzes
	MA 3.2.1a	2, 34, 61, 64, 76, 88	Identify arithmetic patterns (including patterns in the addition or multiplication tables) using properties of	Cummulative Tests 1, 7, 13, 16, 18 Benchmark Test 1, 2, 4,5	L to J Quizzes

			operations.		
	MA 3.2.1.b	2, 34, 61, 64, 76, 88	Interpret a multiplication equation as equal groups (e.g., interpret 4x6 as the total number of objects in four groups of six objects each). Prepresent verbal statements of equal groups as multiplication equations.	Cummulative Tests 1, 7, 13, 16, 18 Benchmark Tests 1,2,4, 5	L to J Quizzes
	MA 3.2.2 Algebraic Processes:		Student will apply the operational properties when multiplying and dividing.		
	MA 3.2.2.a	55, 57, 70, 77, 78, 81, 86, 89	Apply the commutative, associativ	Cummulative Tests 11, 12,	L to J Quizzes

			e, and distributive properties as strategies to multiply and divide.	14, 16,17,18 Benchmark Tests 3, 4, 5	
	MA 3.2.2.b	9, 36, 40, 86, 90	Solve one-step whole number equations involving addition, subtraction, multiplication, or division, including the use of a letter to represent the unknown quantity.	Cummulative Tests 2, 8,18, Benchmark Tests 1,2,5	L to J Quizzes

	MA 3.2.3 Applications		Students will solve real-world problems invoving equations with whole numbers.		
	MA 3.2.3.a	9, 10	Solve real-world problems involving two-step equations (involving two operations) involving whole numbers using addition and subtraction.	Cummulative Test 2 Benchmark Test 1	L to J Quizzes
	MA 3.2.3.b	6, 9, 18, 20, 40, 60, 92	Write an equation (e.g., one operation, one variable) to represent real-world problems involving whole numbers.	Cummulative Tests 2, 4, 8, 12, 19 Benchmark Test 1, 2, 3 ,5	L to J Quizzes

	MA 3.3 GEOMETRY		**Students will communicate geometric concepts and measurement concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.**		
	MA 3.3.1 Characteristics:		Students will identify and describe geometric characteristics and create two- and three-dimensional shapes.		
	MA 3.3.1.a	51, 61, 66, 67, 69	Identify the number of sides, angles, and vertices of two-	Cummulative Tests 11, 13, 14 Benchmark	L to J Quizzes

			dimensional shapes.	Tests 3, 4	
	MA 3.3.1.b	Lesson 104: Extension Activity 10	Sort quadrilaterals into categories (e.g., rhombuses, squares, and rectangles).	Cummulative Test 21	L to J Quizzes

	MA 3.3.1c	42, 47, 62, 63	Draw lines to separate two-dimensional figures into equa express the area of each part as a unit fraction of the wh
	MA 3.3.2 Coordinate Geometry		Student will determin location, orientation, and relationsh coordinate plane.
	MA 3.3.3 Measurement:		Students will perform and compare measurements and a
	MA 3.3.3.a	58, 62, 63, 66, 67, 79	Find the perimeter of polygons given the side lenths, and unknown side length.

	MA 3.3.3.b	39, 65, 71	Tell and write time to the minute using both analog and d
	MA 3.3.3.c	1	Solve real-world problems involving addition and subtrac intervals and find elapsed time.
	MA 3.3.3.d	6, 7, 18, 32, 43, 49, 50, 54, 63, 85, 95, 99, 114, 119	Identify and use the appropriate tools and units of measu customary and metric, to solve real-world problems invo weight, mass, lizuid volume, and capacity (within the sa unit).
	MA 3.3.3.e	6, 32, 54, 99	Estimate and measure length to the nearest half inch, qu centimeter.
	MA 3.3.3.f	63, 88	Use concrete and pictorial models to measure areas in s counting square units.
	MA 3.3.3.g	63, 81, 88	Find the area of a rectangle with whole-number side len modeling with unit squeares, and show that the area is t would be found by multiplying the side lengths.
	MA 3.3.3.h	63, 88	Identify and draw rectangles with the same perimeter an areas or with the same area and different perimeters.
	MA 3.4 DATA:		**Students will communicate data analysis/probability using multiple representations to reason, solve prob make connections within mathematics and across d**
	MA 3.4.1 Representations:		Students will create displays that represent data.

	MA 3.4.1.a	Lessons 2, 40, 55	Create scaled pictographs and scaled bar graphs to rep set-including data collected through observations, surve experiments-with several categories.
	MA 3.4.1.b	Lessons 54, 99,	Represent data using line plots where the horizontal sca in appropriate units-whole numbers, halves, or quarters.
	MA 3.4.2 Analysis & Applications		Students will analyze data to address the situation.
	MA 3.4.2.a	2, 40, 55	Solve problems and make simple statements about qua (e.g., how many more and how many less) using informa represented in pictographs and bar graphs.

	MA 3.4.3 Probability:	Students will interpret and apply concepts of probablility.				