Curriculum Map

Course Title: Saxon Math Intermediate 4	Quarter:	Academic Year: 2015-2016

Essential Questions for this Quarter:

Unit/Time Frame	Standards	Content	Skills	Assessment	Resources

Unit/Time Frame	Standards	Content	Skills	Assessment	Resources
	MA 4.1	**Number:**	**Students will communicate number sense concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.**		
	MA 4.1.1	*Numeric Relationships:*	*Students will demonstrate, represent, and show relationships among fractions and decimals within the base-ten number system.*		
	MA 4.1.1.a	4, 7, 16, 33, 34, 35, 91, 102 Investigation 4A,4B	Read, write, and demonstrate mulitple equivalent representations for whole numbers up to one million and decimals to the hundredths, using objects, visual representations, standard form, word form, and expanded form.	T1, T2, T7, T19, T21	L to J Quizzes
	MA 4.1.1.b	4, 33, 84, 91, 102 Investigation 4A	Recognize a digit in one place represents ten times what it represents in teh place to its right and 1/10 what it represents in the	T1, T7, T17, T19, T21	L to J Quizzes

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Essential Questions for this Quarter:

Unit/Time Frame	Standards	Content	Skills	Assessment	Resources
			place to its left.		
	MA 4.1.1.c	55	Classify a number up to 100 as prime or composite.	T12	L to J Quizzes
	MA 4.1.1.d	55	Determine whether a given whole number up to 100 is a multiple of a given one-digit number.	T12	L to J Quizzes
	MA 4.1.1.e	55	Determine factors of any whole number up to 100.	T12	L to J Quizzes
	MA 4.1.1.f	7, 33, 34, 91 Investigation 1, 4A, 9	Compare whole numbers up to one million and decimals through the hundredths place using >,<, and = symbols, and visual representations.	T2, T7, T19	L to J Quizzes
	MA 4.1.1.g	20, 42, 54, 117	Round a multi-digit whole number to any given place.	T5, T9, T11	L to J Quizzes
	MA 4.1.1.h	69, 102 Investigation 4A, 4B	Use decimal notation for fractions with denominators or 10 or 100.	T14, T21	L to J Quizzes

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Essential Questions for this Quarter:

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	MA 4.1.1.i	109, 112, 115, 116, 119, 120	Generate and explain equivalent fractions by multiplying by an equivalent fraction of 1.	T22, T23	L to J Quizzes
	MA 4.1.1.j	89, 104	Explain how to change a mixed number to a fraction and how to change a fraction to a mixed number.	T18, T21	L to J Quizzes
	MA 4.1.1.k	56, 103 Investigation 9	Compare and order fractions having unlike numerators and unlike denominators using visual representations (number line), comparison symbols, and verbal reasoning (e.g. using benchmark or common numerators or common denominators).	T12, T19, T21	L to J Quizzes
	MA 4.1.1.l	89, 104 Investigation 9	Decompose a fraction into a sum of fractions with the same denominator in more than one way and record each decomposition with an equation and a visual representation.	T18, T19, T21	L to J Quizzes
	MA 4.1.2	*Operations:*	*Students will demonstrate the*		

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			meaning of addition and subtraction of whole numbers and fractions and compute accurately.		
	MA 4.1.2.a	9, 13, 14, 15, 17, 25, 30, 31, 41, 51, 52, 59, 94	Add and subtract multi-digit numbers using the standard algorithm.	T2, T3, T4, T6, T7, T9, T11, T12, T19	L to J Quizzes
	MA 4.1.2.b	85	Multiply a four-digit whole number by a one-digit whole number.	T18	L to J Quizzes
	MA 4.1.2.c	87, 90	Multiply a two-digit whole number by a two-digit whole number using the standard algorithm.	T18, T19	L to J Quizzes
	MA 4.1.2.d	46, 47, 53, 64, 65, 68, 71, 76, 80	Divide up to a four-digit whole number by a one-digit divisor with and without a remainder.	T10, T11, T13, T14, T15, T16, T17	L to J Quizzes
	MA 4.1.2.e	61, 107 Investigation 9	Use drawings, words, and symbols to explain the meaning of addtion and subtraction of fractions with like denominators.	T13, T19, T22	L to J Quizzes

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Essential Questions for this Quarter:

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	MA 4.1.2.f	107 Investigation 9	Add and subtract fractions and mixed numbers with like denominators.	T19, T22	L to J Quizzes
	MA 4.1.2.g	Extension Activity 6	Multiply a fraction by a whole number.	Not Tested?!	L to J Quizzes
	MA 4.1.2.h	42, 53, 59, 65, 68, 76, 93	Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.	T9, T11, T12, T14, T16, T19	L to J Quizzes
	MA 4.2	Algebra:	Students will communicate algebraic concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.		
	MA 4.2.1	*Algebraic Relationships:*	*Students will demonstrate, represent, and show relationships with expressions and equations.*		

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	MA 4.2.1.a	2, 11, 14, 52, 60, 61	Create a simple algebraic expression or equation using a variable for an unkown number to represent a math process (e.g. 3+n=15)	T1, T3, T11, T13	L to J Quizzes
	MA 4.2.1.b	3, 32, 38 Investigation 1, 3, 8	Generate and analyze a number or shape pattern to follow a given rule, such as y=3x+5 is a rule given to describe a relationship between two variables and can be used to find a second number when a first number is given.	T1, T3, T7, T8, T17	L to J Quizzes
	MA 4.2.2	***Algebraic Processes:***	***Students will apply the operational properties when evaluating expressions and solving equations.***		
	4.2.2.a	2, 12, 14, 16, 24, 25, 41, 46, 52, 60, 61, 94, 95	Solve one- and two-step problems which use any or all of the four basic operations and include the use of a letter to represent the unknown quantity.	T1, T3, T4, T5, T6, T9, T10, T11, T13, T19, T20	L to J Quizzes
	MA 4.2.3	***Applications:***	***Students will solve real-world problems involving equations with***		

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Essential Questions for this Quarter:

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			fractions.		
	MA 4.2.3.a	59, 60, 61, 64, 65, 80, 83, 88, 94	Solve real-world problems involving multi-step equations comprised of whole numbers using the four operations, including interpreting remainders.	T12, T13, T14, T17, T18, T19	L to J Quizzes
	MA 4.2.3.b	107, 114	Solve real-world problems involving addition and subtraction of fractions and mixed numbers with like denominators.	T22, T23	L to J Quizzes
	MA 4.3	**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 4.3.1	*Characteristics:*	***Students will identify and describe geometric characteristics and***		

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			create two- and three-dimensional shapes.		
	MA 4.3.1.a	23, 81	Recognize angles as geometric shapes that are formed where two rays share a common endpoint.	T5, T17	L to J Quizzes
	MA 4.3.1.b	23, 78, 92	Classify an angle as acute, obtuse, or right.	T5, T16, T19	L to J Quizzes
	MA 4.3.1.c	23, 45, 78, 92	Identify and draw points, lines, line segments, rays, angles, parallel lines, perpendicular lines, and intersecting lines, and recognize them in two-dimensional figures.	T5, T10, T16, T19	L to J Quizzes
	MA 4.3.1.d	23, 45, 66, 78, 92	Classify two-dimensional shapes based on the presence or absence of parallel or perpendicular lines, or the presence or absence of specific angles.	T5, T10, T14, T16, T19	L to J Quizzes
	MA 4.3.1.e	45, 78	Identify right angles.	T10, T16	L to J Quizzes

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Essential Questions for this Quarter:

Unit/Time Frame	Standards	Content	Skills	Assessment	Resources
	MA 4.3.1.f	81	Measure angles in whole number degrees using a protractor.	Not Tested?!	L to J Quizzes
	MA 4.3.1.g	81	Sketch angles of a specified measure.	Not Tested?!	L to J Quizzes
	MA 4.3.1.h	79	Recognize and draw lines of symmetry in two-dimensional shapes.	T16	L to J Quizzes
	MA 4.3.2	***Coordinate Geometry:***	***Students will determine location, orientation, and relationships on the coordinate plane.***		
	MA 4.3.3	***Measurement:***	***Students will perform and compare measurements and apply formulas.***		
	MA 4.3.3.a	21, 55, 62, 69, 108 Investigation 2, 3	Apply perimeter and area formulas for rectangles.	T5, T7, T12, T13, T14, T22	L to J Quizzes
	MA 4.3.3.b	19, 27, 39, 40, 54, 57, 60, 69, 77, 101, 108, 111 Investigation 2, 11	Identify and use the appropriate tools, operations, and units of measurement, both customary and metric, to solve real-world problems involving time, length,	T4, T5, T6, T8, T9, T11, T12, T13, T14, T16, T21, T22, T23	L to J Quizzes

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Essential Questions for this Quarter:

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			weight, mass, capacity, and volume.		
	MA 4.3.3.c	32, 40, 69, 77, 102 Investigation 2	Generate simple conversions from a larger unit to a smaller unit within the customary and metric systems of measurement.	T5, T7, T9, T16, T21	L to J Quizzes
	MA 4.4	**Data:**	**Students will communicate data analysis/probability concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.**		
	MA 4.4.1	***Representations:***	***Students will create displays that represent data.***		
	MA 4.4.1.a	Investigation 1, 2	Represent data using line plots where the horizontal scale is marked off in appropriate units (e.g. whole numbers, halves, quarters, or eigths).	Not Tested?!	L to J Quizzes

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	MA 4.4.2	*Analysis & Applications:*	*Students will analyze data to address the situation.*		
	MA 4.4.2.a	107, 120	Solve problems involving addition or subtraction of fractions using information in line plots.	Not Tested?!	L to J Quizzes
	MA 4.4.3	*Probability:*	*Students will interpret and apply concepts of probability.*		

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