

SAXON MATH
MATH- GRADE 5

Quarter:

Academic Year: 2015-2016

Saxon Math Intermediate 5	5.1 NUMBER		Students will communicate number sense concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.		
	MA.5.1.1		Numeric Relationships: Students will demonstrate, represent, and show relationships among whole numbers, fractions, and decimals within the base-ten number system.		
	MA 5.1.1.a	New Concept: Lesson(s) 5, 7, 48, 52, 64, 67, 68, 100, 106 Standards Success: Lesson 68: Extension Activity 1	Determine multiple equivalent representations for whole numbers and decimals through the thousandths place using standard form, word form, and expanded notation.		
	5.1.1.b	New Concept: Lesson(s) 4, 7, 38, 39, 69, 70, 71, 106, 116 Investigation: 2, 3	Compare whole numbers, fractions, mixed numbers, and decimals through the thousandths place and represent comparisons using symbols $<$, $>$, or $=$.		
	MA 5.1.1.c	New Concept: Lesson(s) 33, 62, 104 Standards Success: Lesson 106: Extension Activity 8	Round whole numbers and decimals to any given place		

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	MA 5.1.1.d	New Concept: Lesson(s) 23, 30, 37, 43, 67, 71, 79, 107 Investigation: 2, 3	Recognize and generate equivalent forms of commonly used fractions, decimals, and percents (e.g., halves, thirds, fourths, fifths, and tenths).		
	MA 5.1.1.e	New Concept: Lesson(s) 78	Write powers of 10 with exponents.		
	MA 5.1.2		Operations: Students will demonstrate the meaning of operations and compute accurately with whole numbers, fractions, and decimals.		
	MA 5.1.2.a	New Concept: Lesson(s) 17, 29, 51, 55, 56	Multiply multi-digit whole numbers using the standard algorithm.		
	MA 5.1.2.b	New Concept: Lesson(s) 54, 92, 94	Divide four-digit whole numbers by a two-digit divisor, with and without remainders using the standard algorithm.		
	MA 5.1.2.c	New Concept: Lesson(s) 76, 86 Standards Success: Lesson 76: Extension Activity 2; Lesson 86: Extension Activity 4; Lesson 119: Extension Activity 9	Multiply a whole number by a fraction or a fraction by a fraction using models and visual representations.		

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	MA 5.1.2.d	New Concept: Lesson(s) 87, 96 Standards Success: Lesson 87: Extension Activity 5	Divide a unit fraction by a whole number and a whole number by a unit fraction.		
	MA 5.1.2.e	New Concept: Lesson(s) 87 Standards Success: Lesson 87: Extension Activity 5	Explain division of a whole number by a fraction using models and visual representations		
	MA 5.1.2.f	New Concept: Lesson(s) 20, 30 Investigation: 2, 3	Interpret a fraction as division of the numerator by the denominator.		
	MA 5.1.2.g	New Concept: Lesson(s) 64, 73, 99, 102, 109, 110, 111, 117, 118	Add, subtract, multiply, and divide decimals to the hundredths using concrete models or drawings and strategies based on place value, properties of operations (i.e. Commutative, Associative, Distributive, Identity, Zero), and/or relationships between operation		
	MA 5.1.2.h	New Concept: Lesson(s) 116	Add and subtract fractions and mixed numbers with unlike denominators.		
	MA 5.1.2.i	New Concept: Lesson(s) 33, 55, 62, 64, 94	Determine the reasonableness of computations involving whole numbers, fractions, and decimals.		

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	MA 5.1.2.j	New Concept: Lesson(s) 64, 78, 111, 118	Multiply and divide by powers of 10.		
	MA 5.2 ALGEBRA:		Students will communicate algebraic concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.		
	MA 5.2.1		Algebraic Relationships: Students will demonstrate, represent, and show relationships with expressions and equations.		
	MA 5.2.1.a	Standards Success: Investigation 8: Extension Activity 3	Form ordered pairs from a rule such as $y=2x$, and graph the ordered pairs on a coordinate plane.		
	MA 5.2.2		Algebraic Processes: Students will apply the operational properties when evaluating expressions and solving equations.		
	MA 5.2.2.a	New Concept: Lesson(s) 24	Interpret and evaluate numerical or algebraic expressions using order of operations (excluding exponents).		
	MA 5.2.3		Applications: Students will solve real-world problems involving equations with fractions and mixed numbers.		

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	MA 5.2.3.a	New Concept: Lesson(s) 41, 43, 46, 59, 60, 63, 75, 91, 116	Solve real-world problems involving addition and subtraction of fractions and mixed numbers with like and unlike denominators.		
	MA 5.3		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 5.3.1		Characteristics: Students will identify and describe geometric characteristics and create two and three-dimensional shapes.		
	MA 5.3.1.a	New Concept: Lesson(s) 83, 89	Identify three-dimensional figures including cubes, cones, pyramids, prisms, spheres, and cylinders.		
	MA 5.3.1.b	New Concept: Lesson(s) 83, 89	Identify faces, edges, and vertices of rectangular prisms.		
	MA 5.3.1.c	New Concept: Lesson(s) 32, 36, 45	Justify the classification of two-dimensional figures based on their properties.		
	MA 5.3.2		Coordinate Geometry: Students will determine location, orientation, and relationships on the coordinate plane.		

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	MA 5.3.2.a	Investigation: 8	Identify the origin, x axis, and y axis of the coordinate plane.		
	MA 5.3.2.b	Investigation: 8 Standards Success: Investigation 8: Extension Activity 3	Graph and name points in the first quadrant of the coordinate plane using ordered pairs of whole numbers.		
	MA 5.3.3		Measurement: Students will perform and compare measurements and apply formulas.		
	MA 5.3.3.a	New Concept: Lesson(s) 103, 104	Recognize that solid figures have volume that is measured in cubic units.		
	MA 5.3.3.b.	Students measure the volume of rectangular prisms by counting cubes in visual representations and by using the volume formula. Concrete volume models are fully addressed in Grade 4. INSTRUCTION: New Concept: Lesson(s) 103	Use concrete models to measure the volume of rectangular prisms in cubic units by counting cubic units		
	MA 5.3.3.c	INSTRUCTION: New Concept: Lesson(s) 28, 44, 47, 65, 66, 74, 77, 85	Generate conversions within the customary and metric systems of measurement		

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	MA 5.4		DATA: Students will communicate data analysis/probability concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.		
	MA 5.4.1		Representations: Students will create displays that represent data.		
	No additional indicator(s) at this level. Mastery is expected at previous grade levels.				
	MA 5.4.2		Analysis & Applications: Students will analyze data to address the situation.		
	MA 5.4.2.a tables (e.g., frequency charts) and bar graphs.	Investigation: 5, 6, 7, 9	Use observations, surveys, and experiments to collect, represent, and interpret the data using		
	MA 5.4.2.b	Investigation: 7, 9	Formulate questions that can be addressed with data and make predictions about the data.		
	MA 5.4.3		Probability: Students will interpret and apply concepts of probability.		

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