Curriculum Pacing Chart						
2015-16						
Subject: Math Grade 7 (* represents priority SOL)						
Week of	SOL #	Unit	Bloom's	Objective	Related Vocabulary	Related IXL Practice
1st Nine Weeks						(grade 7 unless noted)
8/11	7.1e*, 7.16e	Prior skill review/absolute value/multiplicative property of zero.	7.1 Application 7.16 Comprehension	The student will recall and review place value, rounding, operations with decimals and fractions, order of operations and basic math terminology.The student will identify and describe absolute value for rational numbers. The student will identify and apply the multiplicatgive property of zero.	expression, equation, inequality, verbal, variable, constant, coefficient, terms, algebraic, product, sum, difference, quotient, absolute value, grouping symbols, bar notation multiplicative property of zero	D.3, D.5, H.3
8/17	7.1e*, 7.16a	Prior skill review/exponents/ powers of ten /scientific notation/ commutative and associative property	7.1 Application 7.16 Comprehension	The student will review place value, rounding, and operations with decimals and fractions. The student will review exponents and investigate and describe the concept of negative exponents for powers of ten and determine scientific notation for numbers greater than zero. The student will identify and apply the commutative and associative properties for addition and multiplication		I.6, I.7, A.8, A.9
8/24	7.1a*,b* 7.16c,d	Prior skill review/exponents/ powers of ten /scientific notation/ Identity and Inverse properties	7.1 Application 7.16 Comprehension	The student will review place value, rounding, and operations with decimals and fractions. The student will review exponents and investigate and describe the concept of negative exponents for powers of ten and determine scientific notation for numbers greater than zero. The student will identify aand apply the identity and inverse properties for addition and multiplication	base, exponent, powers, exponential form, standard form, product of the same factor, squared, cubed, scientific notation, identity, inverse, reciprocal, identity elements,	
8/31	7.1d*, 7.16b	Square roots/ perfect squares/ distributive property	7.1 Application 7.16 Comprehension	The student will determine square roots and identify perfect squares. The student will identify and apply the distributive property	square root, perfect square, distributive property	I.9
9/8	7.1a*-e*, 7.16 a-e, 7.4	Fractions, decimals, percents/ All properties / Proportions	7.1 Application 7.16 Comprehension 7.14	The student will express the same value as decimals fractions and the students will compare and order fractions, decimals, percents, powers of ten, square roots and numbers written in scientific notation. The student will practice identifying the difference between examples of properties. Students will learn the definition of a proportion and learn to apply multiple methods to identify the missing value in a given proportion.	ascending, descending, proportion, cross factors	Y.1, Y.2, Y.3, Y.4, J.6 - J.9
1st quarter interim						
9/14	7.3a*b*, 7.4	Problems with proportions, Operations with integers	7.3 Application 7.4 Synthesis	The student will continue to compare and order fractions, decimals and percents. The student will solve single-step and multiple-step problems using proportional reasoning. Students will add, subtract, multiply and divide integers.	integers, counting numbers, natural numbers, whole numbers, sum, difference, product, quotient, operations, deposit, withdrawal	H.4, H.5, K.2, K.3
9/21	7.3a*b*, 7.4	Problems with proportions (consumer problems) , Operations with integers	7.3 Application 7.4 Synthesis	The student will model addition, subtraction, multiplication, and division of integers; and add, subtract, multiply, and divide integers. The student will find discounts, sales tax and tips.	sales tax, discount, tips	L.6, L.10, J.13
9/28	7.3a*,b*, 7.13b	Operations with integers / Replacement value and order of operations	7.3 & 7.13 Application	The student will evaluate algebraic expressions for given replacement values of the variables. The student will model addition, subtraction, multiplication, and division of integers; and add, subtract, multiply, and divide integers.	order of operations	U.2 through U.5
10/5	7.3a*,b*, 7.7	Operations with integers/ Quadrilaterals	7.3 Application 7.7	The student will model addition, subtraction, multiplication, and division of integers; and add, subtract, multiply, and divide integers. The student will compare and contrast the following quadrilaterals based on properties: parallelogram, rectangle, square, rhombus and trapezoid.	quadrilateral, parallelogram, rectangle, rhombus, square, trapezoid, isosceles trapezoid, parallel, perpendicular, diagonals	E.1 - E.9

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2nd Nine Weeks						
10/12	7.2, 7.7	Quadrilaterals / Sequences	7.2 Analysis 7.7	The student will describe and represent arithmetic and geometric sequences, using variable expressions. The student will compare and contrast the following quadrilaterals based on properties: parallelogram, rectangle, square, rhombus and trapezoid.	arithmetic sequence, common difference, geometric sequence, common ratio, term, variable, expression, consecutive, algebraic	T.1, T.2, T.3, T.4, P.8
10/19	7.14a*,b*	One-step linear equations	7.14 Application	The student will solve and check one-step equations in one variable and solve practical problems requiring the solution of a one-step linear equation.	inverse (additive, multiplicative), linear, variable, coefficient, constant, terms,	
10/26	7.14a*,b*, 7.13a	Verbal expressions and equations/ One-step equations	7.13 & 7.14 Application	The student will solve and check one-step equations in one variable and solve practical problems requiring the solution of a one-step linear equation. The student will write verbal expressions as algebraic expressions and sentences as equations and vice versa.	expression, equation, inequality, verbal, variable, constant, coefficient, terms, algebraic, product, sum, difference, quotient	U.1, V.3
11/2	7.14a,b	Two-step linear equations	7.14 Application	The student will learn the definition of a proportion and learn to use a proportion to solve single-step and multistep practical problems. The student will solve and check two-step equations in one variable and solve practical problems requiring the solution of a two-step equation.	proportions, ratio, rate, taxes, tips, discounts	
11/9	7.6, 7.14a,b	Similar Figures/ Two - step linear equations	7.6 Analysis 7.14 Application	The student will learn to use a proportion to solve single-step and multistep practical problems. The student will determine whether plane figures - quadrilaterals and triangles-are similar and write proportions to express the relationship between corresponding sides of similar figures. The student will solve and check two-step equations in one variable and solve practical problems requiring the solution of a two-step equation.	similar, congruent, proportion, quadrilaterals, triangles, correspond(ing), hatch marks	V.4
2nd quarter interim						
11/16	7.6, 7.14a,b	Similar Figures/ Two - step linear equations	7.6 Analysis 7.14 Application	The student will learn to use a proportion to solve single-step and multistep practical problems. The student will determine whether plane figures - quadrilaterals and triangles-are similar and write proportions to express the relationship between corresponding sides of similar figures. The student will solve and check two-step equations in one variable and solve practical problems requiring the solution of a two-step equation.		P.12 - P.14
11/23	7.15 a*,b*	Graphing equations and inequalities on a number line (review) / One-step inequalities	7.15 Application	The student will recall the differences between equations and inequalities and graph both on a number line. The student will solve one-step inequalities in one variable; and graph solutions to inequalities on the number line.	inequality, inverse operations, constant, variable, coefficient,	W.1 - W.3
11/30	7.15 a*,b*	Coordinate plane / One-step inequalities	Comprehension 7.15 Application	Students will identify and graph ordered pairs in the four quadrants of a coordinate plane (Review). The student will graph solutions to inequalities in one variable; and graph solutions to inequalties on the number line.		W.4, W.5, S.1, S.2

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12/7	7.12*	Functions	7.12 Analysis	The student will represent relationships with tables, graphs, rules, and words.	function, function table, ordered pairs, relations, horizontal, vertical, domain, range	X.3, X.5, X.7, X.8, X.9
12/14	7.12*	Functions	7.12 Analysis	The student will represent relationships with tables, graphs, rules, and words.		
3rd Nine Weeks						
1/6	7.10	Fundamental Counting Principle	7.10 Application	The student will determine the probability of compound events, using the Fundamental (Basic) Counting Principle.	fundamental counting principle, tree diagram	Z.5, Z.10
1/11	7.10, 7.9	Fundamental Counting Principle/ Experimental & theoretical probability	7.9 Synthesis 7.10 Application	The student will determine the probability of compound events, using the Fundamental (Basic) Counting Principle. The student will investigate and describe the difference between the experimental probability and theoretical probability of an event.	Experimental probability, Theoretical probability	Z.1, Z.3, Z.7
1/19	7.9	Experimental and theoretical probability	7.9 Synthesis	The student will investigate and describe the difference between the experimental probability and theoretical probability of an event.		
1/25	7.9	Experimental and theoretical probability/ Measures of central tendency	7.9 Synthesis	The student will investigate and describe the difference between the experimental probability and theoretical probability of an event. Review of the measures of central tendency and range.	mean, median, mode, range, measures of central tendency, measure of dispersion	
2/1	7.11 a,b	Histograms	7.11 Application	The student, given data for a practical situation, will construct and analyze histograms; and compare and contrast histograms with other types of graphs presenting information from the same data set.	histogram, bar graph, frequency distribution, stem-and-leaf, line plot, consecutive, intervals, circle graph	O.2, O.3, O.4, O.7, O.8, O.9
3rd Interim						
2/8	7.5 a,b	Volume and surface area of rectangular prisms and cylinders	7.5 Application	The student will describe volume and surface area of cylinders and solve practical problems involving the volume and surface area of rectangular prisms and cylinders.	volume, surface area, rectangular prism, cylinder, net, attribute	8th grade Q.25, Q.27
2/16	7.5 a,b	Volume and surface area of rectangular prisms and cylinders	7.5 Application	The student will solve practical problems involving the volume and surface area of rectangular prisms and cylinders and describe how changing one measured attribute of a rectangular prism affects its volume and surface area.		
2/22	7.8	Translations and reflections	7.8 Analysis	The student, given a polygon in the coordinate plane, will represent translations and reflections by graphing in the coordinate plane.	coordinate plane, coordinates, ordered pair, quadrants, transformations, translation, reflection, rotation, dilation, image, preimage, prime (mark)	Q.1 through Q.7;8th grade R.8, R.9
2/29	7.8	Rotations and dilations	7.8 Analysis	The student, given a polygon in the coordinate plane, will represent rotations and dilations by graphing in the coordinate plane.		
3/7	7.8	All Transformations	7.8 Analysis			
4th Nine Weeks						
3/14		Review all SOLs				
3/21						
3/29						
4/4						
4/11						
4th Interim						
4/18						
4/25						
5/2						
5/9						
5/16						