

Curriculum Pacing Chart						
2015-16						
Subject: Math Grade 7 PreAlgebra (Students complete this curriculum in addition to the 7th grade curriculum) *represents priority SOL						
Week of	SOL #	Unit	Bloom's	Objective	Related Vocabulary	Related IXL Practice
1st Nine Weeks						
8/11	8.2	Real number system	8.2 Analysis	The student will describe orally and in writing the relationships between the subsets of the real number system. (Allows instructor to use this terminology throughout the remainder of the course)	real numbers, rational, irrational, counting (natural) numbers, whole numbers, integers, opposites, (non)terminating, bar notation	A.8, D.1
8/17	8.5 a,b	Perfect Square	8.5 Comprehension	The student will determine whether a given number is a perfect square; and find the two consecutive whole numbers between which a square root lies.	square root, perfect square, consecutive	F.13, F.14, F.15
8/24	8.1b*	Fractions, decimals, percents	8.1 Application	The student will compare and order decimals, fractions, percents, and numbers written in scientific notation	expression, equation, inequality, numerical	G.1, G.2, J.1, J.2
8/31	8.1b*	Fractions, decimals, percents	8.1 Application	The student will compare and order decimals, fractions, percents, and numbers written in scientific notation		
9/8	8.1b*	Fractions, decimals, percents	8.1 Application	The student will compare and order decimals, fractions, percents, and numbers written in scientific notation		
1st Interim						
9/14	8.1a*, 8.4	Simplifying expressions/ Replacement value	8.1 Application	The student will simplify numerical expressions involving positive exponents, using rational numbers, order of operations, and properties of operations with real numbers and The student will apply the order of operations to evaluate algebraic expressions for given replacement values of the variables.		C.8, C.9
9/21	8.1a*, 8.4	Simplifying expressions/ Replacement value	8.1 Application	The student will simplify numerical expressions involving positive exponents, using rational numbers, order of operations, and properties of operations with real numbers and The student will apply the order of operations to evaluate algebraic expressions for given replacement values of the variables.		E.6, E.7, U.1, T.4, T.5
9/28	8.3a,b	Percents	8.3 Analysis	The student will solve practical problems involving rational numbers, percents, ratios, and proportions, and determine the percent increase or decrease for a given situation.	loan, investment, simple interest, tax tip, discount, ratio, proportion, checkbook, transactions, principle, rate, annual	K.5, K.6, K.7, K.8, K.10, J.3, J.4, J.6, J.7
10/5	8.3a,b	Percents	8.3 Analysis	The student will solve practical problems involving rational numbers, percents, ratios, and proportions, and determine the percent increase or decrease for a given situation.		H.6 through H.10, J.10, J.11
2nd Nine Weeks						
10/12	8.15a*,c*	Solve equations	8.15 Application	The student will solve multistep linear equations in one variable with the variable on one and two sides of the equation and identify properties of operations used to solve an equation.	equation, inequality, inverse, reciprocal	U.4, U.5, U.7, U.8, T.6, T.7
10/19	8.15a*,c*	Solve equations	8.15 Application	The student will solve multistep linear equations in one variable with the variable on one and two sides of the equation and identify properties of operations used to solve an equation.		AA.1, AA.2, AA.3
10/26	8.15a*,c*	Solve equations	8.15 Application	The student will solve multistep linear equations in one variable with the variable on one and two sides of the equation and identify properties of operations used to solve an equation.		
11/2	8.15b*	Solve Inequalities	8.15 Application	The student will solve two-step inequalities and graph the results on a number line.		X.1 through X.7
11/9	8.15b*	Solve Inequalities	8.15 Application	The student will solve two-step inequalities and graph the results on a number line.		
2nd Interim						
11/16	8.17	Domain & range	8.17 Comprehension	The student will identify the domain, range, independent variable, or dependent variable in a given situation.	domain, range, function, function table, relationship, dependent variable, independent variable	Algebra Q.2 through Q.5
11/23	8.14*, 8.16*	Functions and graphing linear equations	8.14 Analysis 8.16 Comprehension	The student will make connections between any two representations (tables, graphs, words, and rules) of a given relationship. The student will graph a linear equation in two variables.	vertical line test, discrete, continuous	V.1, V.3, V.5
11/30	8.14*, 8.16*, 8.9	Functions and graphing linear equations/ 3-D models	8.14 Analysis 8.16 Comprehension 8.9 Application	The student will make connections between any two representations (tables, graphs, words, and rules) of a given relationship. The student will graph a linear equation in two variables. The student will construct a three-dimensional model, given the top, bottom, side, and front views.		V.6, V.7, Q.21
12/7	8.14*, 8.16*, 8.10a,b	Functions and graphing linear equations/ Pythagorean Theorem	8.14 & 8.10 Analysis 8.16 Comprehension	The student will make connections between any two representations (tables, graphs, words, and rules) of a given relationship. The student will graph a linear equation in two variables. The student will verify and apply the Pythagorean Theorem.		O.1 through O.5

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12/14	8.14*, 8.16*, 8.11	Functions and graphing linear equations/ Area of composite plane figures	8.14 Analysis 8.16 Comprehension 8.11 Synthesis	The student will make connections between any two representations (tables, graphs, words, and rules) of a given relationship. The student will graph a linear equation in two variables. The student will solve practical area and perimeter problems involving composite plane figures.	polygon, triangle, rectangle, square, parallelogram, rhombus, trapezoid, area, perimeter	Geometry S.8
3rd Nine Weeks						
1/6	8.12	Probability	8.12 Synthesis	The student will determine the probability of independent and dependent events with and without replacement.	probability, independent events, dependent events, replacement	BB.3, BB.5, BB.7
1/11	8.12	Probability	8.12 Synthesis	The student will determine the probability of independent and dependent events with and without replacement.		
1/19	8.13a,b	Scatterplots	8.13 Application	The student will make comparisons, predictions, and inferences, using information displayed in graphs and construct and analyze scatterplots.	scatterplot, positive & negative relationship, comparisons, predictions, inferences, "line of best fit"	N.2, N.4, N.6, N.8, N.9, N.14
1/25	8.6 a,b	Angles	8.6 Analysis	The student will verify by measuring and describe the relationships among vertical angles, adjacent angles, supplementary angles, and complementary angles and measure angles of less than 360 degrees.	vertical, adjacent, supplementary, complementary, congruent, reflex, vertex, intersecting parallel, perpendicular	Q.1, Q.2, Q.3
2/1	8.6 a,b	Angles	8.6 Analysis	The student will verify by measuring and describe the relationships among vertical angles, adjacent angles, supplementary angles, and complementary angles and measure angles of less than 360 degrees.		
3rd Interim						
2/8	8.7 a,b	Volume and surface area	8.7 Application	The student will investigate and solve practical problems involving volume and surface area of prisms, cylinders, cones, and pyramids; and describe how changing one measured attribute of a figure affects the volume and surface area.	surface area, volume, rectangular prisms, cylinders, cones, pyramids, attributes, scale factor, nets	Q.25, Q.26, Q.27, Q.28, Q.32
2/16	8.7 a,b	Volume and surface area	8.7 Application	The student will investigate and solve practical problems involving volume and surface area of prisms, cylinders, cones, and pyramids; and describe how changing one measured attribute of a figure affects the volume and surface area.		
2/22	8.8 a,b	Transformations	7.8 Analysis	The student will apply the transformations to plane figures and identify applications of transformations.	polygon, transformation, (counter)clockwise, symmetry, 3-dimensions, 2-dimensions, translation, reflection, rotation, dilation, prime mark	R.1 through R.9
2/29	8.8 a,b	Transformations	7.8 Analysis	The student will apply the transformations to plane figures and identify applications of transformations.		
3/7	8.8 a,b	Transformations	7.8 Analysis	The student will apply the transformations to plane figures and identify applications of transformations.		
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						