

Math 8 Pacing Guide		KEY:
This Pacing Guide was revised in June 2017.		Blue = 2016 SOL standard
Chapters referenced are from old adopted text, Glencoe Course 3		Black = 2009 and 2016 standard
		Red = 2009 SOL standard
SOL #	Standards	Textbook
First Quarter		
8.3b, 8.5	a) The student will determine both the positive and negative square roots of a given perfect square	3-1
8.3a, 8.5b	b) The student will estimate and determine the two consecutive integers between which a square root lies	3-2
8.2	The student will describe the relationships between the subsets of the real number system	3-3
8.1	The student will compare and order real numbers	2-2, 2-9
8.14a, 8.4 & 8.1a	a) The student will evaluate an algebraic expression for given replacement values of the variables	1-2
8.14b	b) The student will simplify algebraic expressions in one variable	10-1
8.4, 8.3a,b	The student will solve practical problems involving consumer applications	4-4, 5-7, 5-8, supplement
8.17, 8.15	The student will solve multistep linear equations in one variable with the variable on one or both sides of the equation, including practical problems that require the solution of a multi step linear equation in one variable	1-8, 1-9, 10-2, 10-4
8.18	The student will solve multistep linear inequalities in one variable with the variable on one or both sides of the inequality symbol, including practical problems, and graph the solution on a number line	10-6, 10-7, supplement
Second Quarter		
8.13a	a) The student will represent data in scatterplots	11-6
8.13b	b) The student will make observations about data represented in scatterplots	11-6
8.13c	c) The student will use a drawing to estimate the line of best fit for data represented in a scatterplot	11-6
8.15a	The student will determine whether a given relation is a function	supplement
8.15b, 8.17	The student will determine the domain and range of a function	11-2
8.16e, 8.14	The student will make connections between and among representations of a linear function using verbal descriptions, tables, equations, and graphs	11-3, supplement
8.16a	The student will recognize and describe the graph of a linear function with a slope that is positive, negative, or zero	11-4
8.16b	The student will identify the slope and y-intercept of a linear function, given a table of values, a graph, or an equation in $y = mx + b$ form	11-5
8.16c	The student will determine the independent and dependent variable, given a practical situation modeled by a linear function	supplement
8.16d	The student will graph a linear function given the equation in $y = mx + b$ form	11-3, supplement
Third Quarter		
8.5, 8.6a	The student will use the relationships among pairs of angles that are vertical angles, adjacent angles, supplementary angles, and complementary angles to determine the measure of unknown angles	6-1
8.9a, 8.10a	The student will verify the Pythagorean Theorem	3-4
8.9b, 8.10b	The student will apply the Pythagorean Theorem	3-5
8.10, 8.11	The student will solve area and perimeter problems, including practical problems, involving composite plane figures	7-1, 7-2, 7-3
8.7a, 8.8a	The student will given a polygon, apply transformations, to include translations, reflections, and dilations, in the coordinate plane	6-7, 6-8, 4-8
8.7b, 8.8b	The student will identify practical applications of transformations	6-7, 6-8, 4-8
8.8, 8.9	The student will construct a three-dimensional model, given the top or bottom, side, and front	7-4

8.6a, 8.7a	The student will solve problems, including practical problems, involving volume and surface area of cones and square-based pyramids	7-5, 7-6. 7-7, 7-8
8.6b, 8.7b	The student will describe how changing one measured attribute of a rectangular prism affects the volume and surface area	7-8b Spreadsheet Investigation
Fourth Quarter		
8.12a	The student will represent numerical data in boxplots	9-6
8.12b	The student will make observations and inferences about data represented in boxplots	9-6
8.12c	The student will compare and analyze two data sets using boxplots	9-6
8.11a, 8.12	a) The student will compare and contrast the probability of independent and dependent events	8-5
8.11b, 8.12	b) The student will determine probabilities for independent and dependent events	8-5