

Math 6 Pacing Guide		KEY:
This Pacing Guide was revised in June 2017.		Blue = 2016 SOL standard
Chapters referenced are from old adopted text, Glencoe: Math 6		Black = 2009 and 2016 standard
unless noted as Math 7 (7) or PreAlgebra (PA)		Red = 2009 SOL standard
		* = No calculator
SOL #	Standards	Textbook
First Quarter		
6.3a	a) The student will identify and represent integers	8-1
6.3b	b) The student will compare and order integers	8-1
6.3c	c) The student will identify and describe absolute value of integers	8-1, 3-1 (7), 2-1 (PA)
6.4 (6.5)	The student will recognize and represent patterns with whole number exponents and perfect squares.	11-1 (7), 1-4
6.17	The student will identify and extend geometric and arithmetic sequences.	7-6, 5-10 (PA)
6.19a	a) The students will identify and recognize the identity properties for addition and multiplication	9-1
6.19b	b) The student will identify and recognize the multiplicative property of zero	6-5 (7)
6.19c	c) The student will identify and recognize the inverse property for multiplication.	1-4 (PA)
6.6a	* a) The student will add, subtract, multiply, and divide integers	8-2, 8-3, 8.4, 8.5, 3-4(7), 3-5 (7), 3.6(7), 3.7(7), 2-2 (PA), 2-3A (PA), 2-4 (PA), 2-5 (PA)
6.6b	b) The student will solve practical problems involving operations with integers	8-2, 8-3, 8.4, 8.5, 3-4(7), 3-5 (7), 3.6(7), 3.7(7), 2-2 (PA), 2-3A (PA), 2-4 (PA), 2-5 (PA)
6.6c (6.8)	* c) The student will simplify numerical expressions involving integers	1-5, 1-3 (7), 2-2 (PA), 2-3A (PA), 2-4 (PA), 2-5 (PA)
6.2a (6.2a,b,c)	* a) The student will represent and determine equivalencies among fractions, mixed numbers, decimals, and percents	3-1,10-4
6.2b (6.2d)	* b) The student will compare and order positive rational numbers	3-2, 5-5
6.5b (6.6a,b, 6.7)	b) The student will solve single-step and multistep practical problems involving addition and subtraction of fractions and mixed numbers	6-2, 6-3, 6-4, 6-5, 6.6
Second Quarter		
6.5a (6.4)	* a) The student will multiply and divide fractions and mixed numbers (models)	7-2a, 7-4a, Supp.
6.5b (6.6a)	b) The student will solve single-step and multistep practical problems involving multiplication and division of fractions and mixed numbers	7-1, 7-2, 7.3, 7.4, 7-5
6.5c (6.6b, 6.7)	c) The student will solve multistep practical problems involving addition, subtraction, multiplication, and division of decimals	3-5, 4-1, 4-2, 4-3, 4-4
6.13 (6.18)	The student will solve one-step linear equations in one variable, including practical problems that require the solution of a one-step linear equation in one variable. (No longer just whole number coefficients)	9-4, 1-7, 9-2, 9-3, 9-4, 1-4 (7), 3-4 (PA)
6.14a (6.20)	a) The student will represent a practical situation with a linear inequality in one variable	1-7, 4-2 (7), 4-3 (7), 7-3 (PA),
6.14b	b) The student will solve one-step linear inequalities in one variable, involving addition or subtraction, and graph the solution on a number line.	4-5 (7), 4-6 (7), 7-4 (PA)
6.8a (6.11a)	a) The student will identify the components of the coordinate plane	8-6
6.8b (6.11b)	b) The student will identify the coordinates of a point and graph ordered pairs in a coordinate plane	8-6
Third Quarter		

6.1	The student will represent relationships between quantities using ratios, and will use appropriate notations, such as a/b , a to b , and $a:b$.	10-1
6.12a	a) The student will represent a proportional relationship between two quantities, including those arising from practical situations;	10-2, 7-1(7)
6.12b	b) The student will determine the unit rate of a proportional relationship and use it to find a missing value in a ratio table	10-1, 10-3, 7-2 (7), 6-1 (PA)
6.12c	c) The student will determine whether a proportional relationship exists between two quantities	10-2, 7-3 (7), 6-2 (PA)
6.12d	d) The student will make connections between and among representations of a proportional relationship between two quantities using verbal descriptions, ratio tables, and graphs.	7-4 (7), Supplement
6.9 (6.12)	The student will determine congruence of segments, angles, and polygons	13-1, 13-6, 10-6(7)
6.7a (6.10a)	a) The student will derive π (pi);	4-6
6.7b (6.10b)	b) The student will solve problems, including practical problems, involving circumference and area of a circle	4-6, 14-3
6.7c (6.10c)	c) The student will solve problems, including practical problems, involving area and perimeter of triangles and rectangles	1-8, 4-5, 14-2
6.13	The student will describe and identify properties of quadrilaterals	13-4, 10-5 (7)
6.10d	d) The student will describe and determine the volume and surface area of a rectangular prism.	14-4, 14-5, 14-6
Fourth Quarter		
6.10a (6.14a)	a) The student will represent data in a circle graph	2-3, 14-3b, 10-2(7)
6.10b (6.14b)	b) The student will make observations and inferences about data represented in a circle graph	2-3, 2-4
6.10c (6.14c)	c) The student will compare circle graphs with the same data represented in bar graphs, pictographs, and line plots	Supplement 2-1, 2-2, 2-8
6.11a (6.15a)	a) The student will represent the mean of a data set graphically as the balance point	Supplement
6.11b	b) The student will determine the effect on measures of center when a single value of a data set is added, removed, or changed	Supplement
6.15b	b) The student will decide which measure of center is appropriate for a given purpose.	2-6, 2-7, 2-4 (7)
6.16a	a) compare and contrast dependent and independent events	11-5, 9-7 (7)
6.16b	b) determine probabilities for dependent and independent events	11-1, 11-2, 11-5, 9-7 (7)
6.9	The student will make ballpark comparisons between measurements in the U.S. Customary System of measurement and measurements in the metric system.	12.1, 12.2, 12.3, 12.4, and Supplement