

	8 th Grade Math			
Benchmark/ Target Month	Pass Standard/Content	Introduce (Chapter)	Develop (Chapter)	Master (Chapter)
	Standard 1 - ALGEBRAIC REASONING: PATTERNS AND RELATIONSHIPS The student will graph and solve linear equations and inequalities in problem solving situations.			
Aug/Sept	1.1 Equations a. Model, write, and solve multi-step linear equations with one variable using a variety of methods to solve application problems. b. Graph and interpret the solution to one and two step linear equations on a number line with one variable and on a coordinate plane with two variables. c. Predict the effect on the graph of a linear equation with the slope or y-intercept changes (make predictions from graphs, identify the slope or y-intercept in the equation $y = mx + b$ and relate to a graph). d. Apply appropriate formulas to solve problems (ex. $D=RT$, $I=PRT$)	1.6, 1.7 2.3, 2.4 2.5, 2.6 3.1, 3.5	5.7, 6.1 6.3, 6.4	11.4, 11.5 11.6
Dec	1.2 Inequalities: Model, write, solve and graph one-step and two-step linear inequalities with one variable.	6.5	6.6	6.6
	Standard 2 - NUMBER SENSE AND OPERATIONS The student will use numbers and number relationships to solve a variety of problems.			
Sept	2.1 Number Sense Represent and interpret large numbers and numbers less than one in exponential and Scientific notation.	2.7	2.8	12.3, 12.4
Oct	2.2 Number Operations a. Use the rules of exponents, including integer exponents, to solve problems. b. Solve problems using Scientific notation. c. Simplify numerical expressions with rational numbers, exponents, and parentheses using order of operations.	1.1, 1.3 1.4, 1.5 1.6, 1.7	2.1, 2.2 2.7, 2.8	12.3 12.4 12.5
	Standard 3 – GEOMETRY The student will use geometric properties to solve problems in a variety of contexts.			
Feb	3.1 Construct models, sketch and classify solid figures such as rectangular solids, prisms, Cones, cylinders, pyramids and combined forms.	8.1, 8.2	8.3, 8.4	8.5
Sept/Oct	3.2 Develop the Pythagorean Theorem and apply the formula to find the length of line Segments, the shortest distance between two points on a graph, and the length of an Unknown side of a right triangle.	3.2	3.3	3.4
	Standard 4 – MEASUREMENT The student will use measurement to solve problems in a variety of contexts.			
Feb	4.1 Develop and apply formulas to find the surface area and volume of rectangular prisms, Triangular prisms, and cylinders (in terms of pi).	8.4	8.6	8.6
Oct/Nov	4.2 Apply knowledge of ratio and proportion to solve relationships between similar Geometric figures.	4.4, 4.5	4.6, 4.7	8.9
Jan	4.3 Find the area of a “region of a region” for simple composite figures and the area of Cross sections of regular geometric solids.	7.6	7.7	7.7
	Standard 5 – Data Analysis The student will use data analysis, probability, and statistics to interpret data in a variety of contexts.			
Mar	5.1 Data Analysis: Select, analyze, and apply data displays in appropriate formats to draw Conclusions and solve problems.	9.2, 9.3 9.4	9.5, 9.6 9.7, 9.8	9.9
Apr	5.2 Probability: Determine how samples are chosen to draw and support conclusions About generalizing a sample to a population.	10.3	10.3	10.3
Mar	5.3 Central Tendency: Find the measures of central tendency (mean, mode, median, and Range) of a set of data and understand which one provides the most useful Information.	9.1	9.1	9.1