Pacing Guide: Algebra 1 B					
Content and Duration	**Content Expectation (GLCE/HSCE)**	**Student Learning Targets**	**Content Vocabulary**	**Required Activities**	**Common Assessments and Rubrics**
UNIT #1 Division and Proportions in Algebra 2-3 weeks		*Students will be able to:* - multiply and simplify algebraic fractions - divide algebraic fractions - solve proportions - use the language of proportions and the means-extremes property - use rates in real situations - convert units and use reciprocal rates in real situations - use ratios to compare two quantities - calculate relative frequencies and probabilities in situations with a finite number of equally likely outcomes - find probabilities	algebraic fraction complex fraction rate reciprocal rates conversion rate ratio tax rate discount rate outcome event probability P(x) probability distribution unbiased fair conditional probability complement odds of an event relative frequency pth percentile proportion extremes means population sample randomly capture-recapture method ratio of similitude	5.1 #1-30 5.2 #1-26 5.3 #1-28 5.4 #1-26 5.5 #1-16 5.6 #1-26 5.7 #1-21 5.8 #1-20 5.9 #1-27 5.10 #1-24 Unit Review WKS	Quiz #1 Quiz #2 Unit Test Homework Quiz Algebra 1 B Exam

		involving geometric regions - solve problems involving proportions in real situations - interpret the meaning of percentile for benchmarks of 10^{th}, 25^{th}, 50^{th}, 75^{th}, and 90^{th} percentiles - find lengths and ratios of similitude in similar figures			

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UNIT #2 Slopes and Lines 2-3 weeks		*Students will be able to:* - find the slope of the line through two given points - find an equation for a line given either its slope and any point, or two points on it - write an equation for a line in standard form or slope-intercept form, and using either form, find the line's slope and y-intercept - use the definition and properties of slope - calculate rates of change from real data and describe their real-world meanings - use equations for lines to describe real situations - given data whose graph is approximately linear, find a linear equation to	rate of change rate unit slope y-intercept slope-intercept form direct variation point-slope form x-intercept line of best fit linear regression least squares line linear combination standard form of an equation of a line oblique boundary line half-planes linear inequalities	6.1 #1-18 6.2 #1-24 6.3 #1-26 6.4 #1-24 6.5 #1-24 6.6 #1-22 6.7 #1-22 6.8 #1-21 6.9 #1-21 Unit Review WKS	Quiz #1 Quiz #2 Unit Test Homework Quiz Algebra 1 B Exam

		fit the graph and make predictions about data values - graph a line given it's equation, or a given point and it's slope - graph linear inequalities			

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UNIT #3 Linear Systems 2-3 weeks		*Students will be able to:* - solve systems using substitution - solve systems using addition and multiplication - solve nonlinear systems - determine whether a system has 0, 1, or infinitely many solutions - use systems of linear inequalities to solve real-world problems - find solutions to systems of equations by graphing - graphically represent solutions to systems of linear inequalities - write a system of inequalities given a graph	system solution to a system empty set null set addition method for solving systems equivalent systems multiplication method for solving systems coincident lines nonlinear system	10.1 #1-21 10.2 #1-21 10.3 #1-22 10.4 #1-25 10.5 #1-23 10.6 #1-21 10.9 #1-20 10.10 #1-18 Unit Review WKS	Quiz #1 Quiz #2 Unit Test Homework Quiz Algebra 1 B Exam

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Content and Duration	**Content Expectation (GLCE/HSCE)**	**Student Learning Targets**	**Content Vocabulary**	**Required Activities**	**Common Assessments and Rubrics**
UNIT #4 Using Algebra to Describe Patterns of Change 2-3 weeks		*Students will be able to:* - evaluate functions - calculate function values in spreadsheets or graphing calculator tables - use the language of functions - calculate compound interest - solve problems involving exponential growth and decay - determine whether a situation is constant increase, constant decrease, exponential growth, exponential decay, or a non-constant change - compare linear increase with exponential growth - compare linear decrease with exponential decay	power nth power base exponent principal interest annual yield compound interest exponential growth growth factor exponential growth equation exponential decay half-life exponential regression function input output value of the function squaring function independent variable dependent variable domain of a function range of a function relation f(x) notation function notation	7.1 #1-27 7.2 #1-20 7.3 #1-20 7.4 #1-20 7.5 #1-25 7.6 #1-16 7.7 #1-24 Unit Review WKS	Quiz #1 Quiz #2 Unit Test Homework Quiz Algebra 1 B Exam

		- graph exponential relationships - graph functions			