



HIGHLANDS HIGH SCHOOL

ALGEBRA I PACING GUIDE

ALGEBRA I	Numbers and Operations	Algebraic Concepts
SAS MODULE 1 <i>Relationships Between Quantities and Reasoning with Equations</i> (Suggested Timeline: 6 weeks)	CC.2.1.HS.F.1 Apply and extend the properties of exponents to solve problems with rational exponents.	CC.2.2.HS.D.1 Interpret the structure of expressions to represent a quantity in terms of its context.
	ASSESSMENT	ASSESSMENT
	CC.2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems.	CC.2.2.HS.D.2 Write expressions in equivalent forms to solve problems.
	ASSESSMENT	ASSESSMENT
	CC.2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multi-step problems.	CC.2.2.HS.D.3 Extend the knowledge of arithmetic operations and apply to polynomials.
	ASSESSMENT	ASSESSMENT
SAS MODULE 2 <i>Linear and Exponential Relationships</i> (Suggested Timeline: 13 weeks)		CC.2.2.HS.C.5 Construct and compare linear, quadratic, and exponential models to solve problems.
	ASSESSMENT	ASSESSMENT
		CC.2.2.HS.C.1 Use the concept and notation of functions to interpret and apply them in terms of their context.
		ASSESSMENT
		CC.2.2.HS.C.2 Graph and analyze functions and use their properties to make connections between the different representations.
		ASSESSMENT
		CC.2.2.HS.C.6 Interpret functions in terms of the situation they model.
		ASSESSMENT
		CC.2.2.HS.D.10

		Represent, solve and interpret equations/inequalities and systems of equations/inequalities algebraically and graphically.
		ASSESSMENT

SAS MODULE 3 <i>Descriptive Statistics</i> (Suggested Timeline: 5 weeks)	Algebraic Concepts	Geometry	Statistics and Probability
		CC.2.3.HS.A.4 Apply the concept of congruence to create geometric constructions.	CC.2.4.HS.B.1 Summarize, represent, and interpret data on a single count or measurement variable.
		ASSESSMENT	ASSESSMENT
		CC.2.3.HS.A.7 Apply trigonometric ratios to solve problems involving right triangles.	CC.2.4.HS.B.2 Summarize, represent, and interpret data on two categorical and quantitative variables.
		ASSESSMENT	ASSESSMENT
			CC.2.4.HS.B.3 Analyze linear models to make interpretations based on the data.
			ASSESSMENT
SAS MODULE 4 <i>Equations and Expressions</i> (Suggested Timeline: 6 weeks)	CC.2.2.HS.D.1 Interpret the structure of expressions to represent a quantity in terms of its context.		
	ASSESSMENT		
	CC.2.2.HS.D.2 Write expressions in equivalent forms to solve problems.		
	ASSESSMENT		
	CC.2.2.HS.D.3 Extend the knowledge of arithmetic operations and apply to polynomials		
	ASSESSMENT		
	CC.2.2.HS.D.7 Create and graph equations or inequalities to describe numbers or relationships.		
	ASSESSMENT		

SAS MODULE 5 <i>Quadratic Functions and Modeling</i> (Suggested Timeline: 6 weeks)	Numbers and Operations	Algebraic Concepts
	CC.2.1.HS.F.1 Apply and extend the properties of exponents to solve problems with rational exponents.	CC.2.2.HS.C.2 Graph and analyze functions and use their properties to make connections between the different representations
	ASSESSMENT	ASSESSMENT
		CC.2.2.HS.C.3 Write functions or sequences that model relationships between two quantities.
		ASSESSMENT
		CC.2.2.HS.C.4 Interpret the effects transformations have on functions and find the inverses of functions.
		ASSESSMENT
		CC.2.2.HS.C.5 Construct and compare linear, quadratic and exponential models to solve problems.
		ASSESSMENT