

Stockton Unified School District EDISON HIGH SCHOOL Home of the Vikings



	Essential Outcomes Chart: What is it we expect students to learn?								
							Louie Tolentino	Graham Weiss	
Grade:	9-12	Subject:	Algebra 1	Semester	1-2	Team Members:	Catherine Wheeler	Tory Kooyman	
Sta	Standard Description		Example Rigor		Prerequisite Skills		Common Assessment	When Taught?	Extension Standards
What is the essential standard to be learned? Describe in student-friendly vocabulary.		What does p student work Provide an exa descrip	look like? mple and/or	skills, and/ is/are neede	or knowledge, for vocabulary ed for a student this standard?	What assessment(s) will be used to measure student mastery?	When will this standard be taught?	What will we do when students have learned the essential standard(s)?	
use the lang algebra. • A-tha	Outcome: Underguage and propert SSE.1 Interpret eat represent a quarms of its context: Interpret pexpression terms, fact coefficient Interpret cexpression viewing or of their passingle entire	expressions ntity in arts of an , such as ors, and s. omplicated s by ne or more rts as a	Understanding the mathematical properties applying them to expressions.	operties and		lerstanding of cal Operations	PLC Created Formative and Summative Assessments	TBD	Extension activities located in Algebra I PLC Google Drive.
Solve multi inequalities	Outcome: Creat i-step equations a in one variable in ccimals, fractions	nd ncluding	Being able to sol unknown variabl properties of equ inequalities with operations.	e using ality and	Integer Decimal Fraction Algebra	nber Operations Operations Operations Operations Vocabulary -Step Equations	PLC Created Formative and Summative Assessments	TBD	Extension activities located in Algebra I PLC Google Drive.

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 A-CED.1 Create/Use equations and inequalities in one variable including ones with absolute value to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions. 					
 A-CED.3 Create equations that describe numbers or relationships. 					
 A-CED.4 Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations. 					
 A-REI.1 Explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step, starting from th assumption that the original equation has a solution. Construct a viable argument to justify a solution method. 					
3.Essential Outcome: Graph Linear					
Equations using various formats.					
A-CED.1 Create/Use equations and inequalities in one variable including ones with absolute value to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions.	Be able to recognize and graph linear equations from slope-intercept, standard and	Plotting points on a Coordinate Plane Reading a Graph	PLC Created Formative and Summative Assessments	TBD	Extension activities located in Algebra I PLC Google
 A-CED.2 Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales. 	point-slope form on a coordinate plane.	Using a Table to find input and output of a function.			Drive.
 A-REI.10 Understand that the graph of an equation in two variables is the set of all its solutions lotted in the 					

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coordinate plane, often forming a curve (which could be a line)					
S-ID.7 Interpret the slope (rate of change) and the interpret (constant term) of a linear model in the context of the data.					
 F-IF.1 Understand that a function assigns each element of the domain exactly one element of the range. 					
 F-IF.2 Use function notation and evaluate functions for inputs in their domains. 					
• F-IF.5 Relate the domain of a function to its graph.					
 F-IF.7.b Graph square root, cube root, and piecewise-defined functions, including step functions and absolute value functions. 					
4. Essential Outcome: Solve Systems of Equations and Inequalities.					
A-CED.1 Create/Use equations and inequalities in one variable including ones with absolute value to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential	Identify the solutions of a system of equations and inequalities by graphing,	Graphing Linear Equations Evaluating Substitution	PLC Created Formative and Summative Assessments	TBD	Extension activities located in Algebra I PLC Google Drive.
 A-CED.2 Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales. 	substitution, and elimination.	Algebraic Properties			Dilve.
A-REI.6 Solve systems of linear equations exactly and approximately					

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 (e.g, with graphs), focusing on pairs of linear equations in two variables A-REI.12 Graph the solutions to a linear inequality in two variables as a half-plane (excluding the boundary in in the case of a strict inequality) The solution set to a system of linear inequalities in two variables as the intersection of the corresponding half- 					
 F-IF.9 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically, in tables). 					
S.Essential Outcome: Solve Quadratic Functions Using various methods. • A-CED.1 Create/Use equations and inequalities in one variable including ones with absolute value to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions. • A-CED.2 Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.	Solve quadratic functions by graphing, factoring and using the quadratic formula. Determine the solutions, axis of symmetry, vertex and discriminant of a given quadratic function.	Using a Table to Graph independent variables.	PLC Created Formative and Summative Assessments	TBD	Extension activities located in Algebra I PLC Google Drive.
6.Essential Outcome: Add, subtract, multiply, division, & factoring polynomial expressions. • A-ARP.1 That polynomials form a system analogous to the integers, namely, they are closed under the operations of addition, subtraction, and multiplication	Students can simplify algebraic expressions such as $(2x^2)^3$ and $4x^2 * 3x^3$ etc. using mathematical properties (ex. the properties of exponents)	Properties of Algebra Basic Mathematical Operations	PLC Created Formative and Summative Assessments	TBD	Extension activities located in Algebra I PLC Google Drive.

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N DNA D	Students can simplify $\sqrt{126}$ and other radicals. This	Understanding of Squares Prime Factorization	PLC Created Formative and	TBD	Extension activities located in Algebra I PLC Google
involving radicals and rational exponents using the properties of exponents.	skill helps when solving quadratics and other intricate equations involving roots.	Multiplication Facts	Summative Assessments	180	Drive.

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