

TERM 1							
DATE	WEEK	UNIT	STUDENT LEARNING OBJECTIVE	CORRESPONDING CCSS	SCF	ASSESSMENT	ASS DATE
	Week 1	1	<p>Relationships between Quantities</p> <ul style="list-style-type: none"> Write an expression given a context and identify parts of the expression, such as its terms, factors, coefficients, and constants. Interpret the meaning of each of the parts (terms, factors, coefficients, and constants) in terms of the context that they represent. Analyze a linear expression from a given context to determine how the output (independent variable) changes based on the input (dependent variable), in terms of the situation it models. Analyze an exponential expression from a given context to determine how the output (independent variable) changes based on the input (dependent variable), in terms of the situation it models. 	<p>A-SSE.1a A-SSE.1b</p>			
	Week 2	1	<ul style="list-style-type: none"> Describe the appropriate units needed for a given situation/context. Model a real-world context by writing a linear equation in one variable, and solve the equation for a quantity using appropriate units. Model a real-world context by writing a linear inequality in one variable, and solve the inequality for a quantity using appropriate units. Interpret the solution of an inequality in terms of the context of the problem. 	<p>A-CED.1; N-Q.2,3 A-CED.1</p>			

	Week 3	1	<ul style="list-style-type: none"> Understand the definition of absolute value from: $X = -x \quad x < 0$ $x \quad x \geq 0$ And use it to solve one-variable absolute value equations and inequalities Create a one –variable. absolute value equation from a given context, solve it and graph the solution on a number line, and interpret the solution in terms of the context. 	<i>CED.1(CA),3</i>			
	Week 4	1	<ul style="list-style-type: none"> Use a given table of values that represents exponential growth/decay to write an exponential equation for the given table in the form $y = a \cdot b^x$ Given a real world context write an exponential equation in the for $y = a \cdot b^x$ and solve it for a quantity using appropriate units. Interpret the solution of an exponential equation in terms of the context of the problem. 	<i>A-CED.1</i>			
	Week 5	1	<ul style="list-style-type: none"> Graph a linear equation in two variables from the form $y = mx + b$ on a coordinate plane. Create and graph a linear equation in two variables from a given. Graph an exponential equation in two variables on a coordinate plane. Create and graph an exponential equation in two variables from a given context. 	<i>A-CED.2, N-Q.1</i>		MATH MAP EXAM	



	Week 6	1	<ul style="list-style-type: none"> Identify constraints of a linear equation or inequality, within the context of a given situation. Decide if solution(s) make sense within the context of a given situation. Rearrange a given formula in order to solve for a specific variable or quantity of interest. 	<i>A-CED.3</i> <i>A-CED.4</i>			
<p>Vocabulary: Accuracy Algebraic expression Coefficient Compound statement Compound inequality Continuous graph Conversion factor Dependent variable Dimensional analysis Discrete graph Distributive property Domain Equation Equivalent expressions Expression Function notation Function rule Independent variable Inequality Intersection Literal equations Numerical expression Precision Properties of Equality Proportion Range</p>							
<p>Unit Questions: A.SSE.1 Modeling with Expressions <input type="checkbox"/> I CAN identify the coefficients in an expression. A.CED.1 Creating and Solving Equations <input type="checkbox"/> I CAN create linear inequalities in one variable to solve problems. A.CED.4 Solving for a Variable <input type="checkbox"/> I CAN rearrange a formula to correctly solve for a variable. A.CED.3 Creating and Solving Inequalities <input type="checkbox"/> I CAN create and solve an inequality that represents a real world situation. A.CED.1 Creating and Solving Compound Inequalities <input type="checkbox"/> I CAN use compound linear inequalities to solve problems. N.Q.2 Modeling Quantities <input type="checkbox"/> I CAN use the correct quantities when modeling a problem. N.Q.3 Reporting with Precision and Accuracy <input type="checkbox"/> I CAN determine an appropriate level of accuracy to assign to a quantity.</p>							
<p>Possible Resources: Opening Tasks, Pearson, Mathletics, Brain Pop, Matching Cards</p>							



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	Week 7	2	<p><u>Linear and Exponential Relationships</u></p> <ul style="list-style-type: none"> • Create a table of values and graph points given an equation in context. • Create an equation from context through use of tables and graphs. • Find and explain a solution from a graph. • Create a table and graph for a system of linear equations, from mathematical and real- world contexts. • From a table of values or a graph, estimate a solution to a system of linear equations by locating the point of intersection. 	<p><i>A-REI.10</i> <i>A-REI.11</i></p>			
	Week 8	2	<ul style="list-style-type: none"> • Find the domain and range from a given context. • Given a table or graph, determine whether or not it is a function. • Given a table of values or a graph of a function, identify the domain and range. • Evaluate a function over a given domain in order to determine the range (from an equation, graph, or context). • Given the equation of a linear or exponential function from a context, evaluate the function for a specific input value and interpret the results in terms of the context. 	<p><i>F-IF.1</i> <i>F-IF.2</i></p>			

	Week 9	2	<ul style="list-style-type: none"> Graph the solution set of a linear inequality in two variables. From a given context, write a linear inequality in two variables and graph the solution set (considering constraints, when applicable). Graph the solution set to a system of linear inequalities in two variables. From a given context, write a system of linear inequalities, graph the solution, and interpret the solution set in terms of the situation. 	A-REI.12		MID-TERM EXAM	
	Week 10	2	<ul style="list-style-type: none"> Find a specific term(s) or a missing term(s) in a given sequence. Use a recursive formula in order to create a table of values and a graph. Write and use a recursive formula from a given context. 	F-IF.3			
	Week 11	2	<ul style="list-style-type: none"> Interpret key features from a graph (including intercepts, positive/ negative, increasing/ decreasing, maximum/ minimum values, and domain). Include linear and exponential functions. Create a graph that represents a given context and determine its key features. Include linear and exponential functions. Calculate the rate of change for a linear or exponential function over an interval (from an equation or from a table of values), and explain what it means in terms of the context. 	F-IF.4,5 F-IF.6; F-LE.1a			
Vocabulary:							



Range Rate Ratio Relation Scale, Scale drawing Scale model Solution of an equation Significant digits Terms Vertical line test Linear equation Linear function Linear inequality of 2 variables Point-slope form Rate of change Sequence Slope, Slope formula Slope intercept form Solution Standard form Term x-intercept y-intercept

Unit Questions:

F.IF.4 Graphing Relationships

I CAN sketch a graph from a verbal description of the relationship of the points.

F.IF.1 Understanding Relations and Functions

I CAN demonstrate that a function must have exactly one y-value for every x -value.

F.IF.2 Modeling with Functions

I CAN interpret statements that use function notation.

F.IF.1 Graphing Functions

I CAN show that x-values are the domain and the y-values are the range.

F.IF.3 Identifying and Graphing Sequences

I CAN define a sequence and show its relation to a function.

F.IF.6 Interpreting Rate of Change and Slope

I CAN interpret and calculate the average rate of change of a function from a table and a graph.

A.REI.10 Point-Slope Form

I CAN demonstrate that a graph of any equation in two variables is the set of all of its solutions.

A.REI.11 Using Functions to Solve One-Variable Equations

I CAN use functions to solve one-variable equations.

A.REI.12 Linear Inequalities in Two Variables

I CAN write and graph linear inequalities with two variables.

Possible Resources:

Opening Tasks, Pearson, Mathletics, Brain Pop, Matching Cards