Corsica Stickney Curriculum Man				
Subject: Algebra 1	Teacher: Mr. Jason Broughton			
Grade:9 th	Duration: October			
Unit3:				
Module 5 lessons 5.1,5.2,5.3				
Module 6 lessons 6.1,6.2,6.3,6.4,6.5				
Module 7 lessons 7.1,7.2,7.3				
Summary of unit:				
Students will learn about: linear functions.	. Rate of change and slope. Slope-intercept form			
and point-slope form. Modeling linear relationships. using functions to solve one-variable				
equations. Linear inequalities in two variables				
Stage 1 – Desired Results				
Standards	Essential Questions:			
F-LE.1bReccognize situations in which	What is a linear function?			
one quantity changes at a constant rate				
per unit interval relative to another	How can you identify and use intercepts in linear			
	relationships?			
F-IF.7a Graph linear functions and				
show intercepts	How can you relate rate of change and slope in			
	linear relationships?			
F-IF.6 Calculate and interpret the				
average rate of change of a function	How can you represent a linear function in a way			
Estimate the rate of change from a graph.	that reveals its slope and y-intercept?			
F-IF.7a Graph linear functions and				
show intercepts	How can you represent a linear function in a way			
A-CED.2 Create equations in	that reveals its slope and a point on its graph?			
twovariables to represent relationships				
between quantitie	How can you write a linear equation in standard			
A-LED.2 Create equations in two	form given properties of the line including its			
variables to represent relationships	slope, and points on the line?			
between quantities				
F-BF.3 Identify the effect on the graph of	what are the ways in which you can transform			
replacing $f(x)$ by $f(x) + k$, $kf(x)$, and $f(x)$	the graph of a linear function?			
+ k) for specific values of k (both positive				

How can you model linear relationships given limited information?

How can you use functions to solve one-variable equations?

How do you write and graph linear inequalities in two variables?

modeling context. A-REI.11 Explain why the x-coordinates of the points where the graphs of the equations y = f(x) and y = g(x) intersect are the solutions of the equation f(x) =g(x)...

inequalities, and interpret solutions as

A-CED.3 Represent constraints by

equations or inequalities, and by systems of equations and/or

viable or non-viable options in a

and negative)...

A-REI.12 Graph the solutions to a linear inequality in two variables as a halfplane...

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Language objective	Mathematical practices	Integrate mathematical practice
	_	MP.5 Mathematically proficient
Describe a situation that	MP.5 Using Tools	students consider the available
can be represented by a	_	tools when solving a mathematical
linear function, and write		problem. These tools might include
an equation for the	MP.2 Reasoning	pencil and paper, concrete models,
function.		a ruler, a protractor, a calculator, a
		spreadsheet, a computer algebra
Explain to a partner how	MP.6 Precision	system, a statistical package, or
to find the x-and y-		dynamic geometry software.
intercepts for an equation.		Proficient students are sufficiently
		familiar with tools appropriate for
Describe the rate of		their grade or course to make
change in a real-world		sound decisions about when each
situation by using the		of these tools might be helpful,
words for every, each, or		recognizing both the insight to be
per to relate two		gained and their limitations. For
quantities.		example, mathematically proficient
		high school students analyze
Explain to a partner how		graphs of functions and solutions
to write a linear function		generated using a graphing
in slope-intercept form.		calculator. They detect possible
		errors by strategically using
Explain to a partner how		estimation and other mathematical
to write a linear function		knowledge. When making
in point-slope form.		mathematical models, they know
		that technology can enable them to
Work in pairs to complete		visualize the results of varying
a table to decide which		assumptions, explore
form of a linear equation		consequences, and compare
to use.		predictions with data.
		Mathematically proficient students
Be able to explain		at various grade levels are able to
transformations of linear		identify relevant external
functions using English		mathematical resources, such as
words and mathematical		digital content located on a
language.		website, and use them to pose or
		solve problems. They are able to
Explain to a partner how		use technological tools to explore
to write a linear equation		and deepen their understanding of
based on a verbal model		concepts.
describing a situation.		
Evaluin to a newthen here		
Explain to a partner now		
one-variable equations		
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Explain to a partner how an inequality represents a situation. Explain how to graph a linear inequality in two variables.			
Stage 2 – Assessment Evidence			
Performance Tasks: Homework quizzes, worksheet, Tests.	Unit Pre-Assessment: Assign ready-made or customized practice tests to prepare students for high-stakes tests		
Stage 3 – Learning Plan			
Reading and discussing lesson with class. Giving students examples to be completed in class. Students taking notes and using notes to complete homework assignments.			
Lesso	n Descriptions		
MODULE 5 Linear Functions			
Lesson 5.1 Understanding Linear Functions			
Lesson 5.2 Using Intercepts			
Lesson 5.3 Interpreting Rate of Change and Slope			
MODULE 6 Forms of Linear Equations Lesson 6.1 Slope-Intercept Form Lesson 6.2 Point-Slope Form Lesson 6.3 Standard Form Lesson 6.4 Transforming Linear Functions Lesson 6.5 Comparing Properties of Linear Functions			
MODULE 7 Linear Equations and Inequalities Lesson 7.1 Modeling Linear Relationships Lesson 7.2 Using Functions to Solve One-Variable Equations Lesson 7.3 Linear Inequalities in Two Variables			