Co	Corsica Stickney Curriculum Map						
Subject: Algebra 1			Jason Broughton				
Grade:9 <sup>th</sup>		Duration: November					
Unit4							
Module 8 lessons 8.1,8.2							
Module 9 lessons 9.1,9.2,9.3,9.4							
Module 10 lessons 10.1,10.2	2						
Summary of unit:							
students will complete a Math in Careers task by examining the data of several U.S. rivers.							
Critical skills include finding and comparing the mean and median, examining the impact of							
an outlier on the mean, and finding the range and standard deviation.							
	Stage 1 -	- Desired Res	ults				
Standards	Juge 1	Essential Questions:					
S-ID.5 Summarize categorical data for		How can categorical data for two categories be					
		summarized?					
two categories in two-way frequency tables. Interpret relative frequencies in							
the context of the data (including joint,		How can you recognize possible associations and					
marginal, and conditional re	· · · ·		trends between two categories of categorical				
frequencies). Recognize possible		data?					
associations and trends in the data.		uutu.					
associations and trends in th	ic data.	How can you describe and compare data sets?					
S-ID.2 Use statistics appropriate the statistics of the statistics appropriate the statistics appropri	riate to the						
shape of the data distribution		What statistics are most affected by outliers, and					
compare center (median, m		what shapes can data distributions have?					
	spread (interquartile range, standard						
deviation) of two or more different data		How can you interpret and compare data sets					
sets.	-		using data displays?				
Sets.		using dutu un	sprays.				
S-ID.1 Represent data with plots on the		How can you use characteristics of a normal					
real number line (dot plots, histograms,		distribution to make estimates and probability					
and box plots).	C A	predictions about the population that the data					
		represents?					
S-ID.6c Fit a linear function for a scatter							
plot that suggests a linear association		How can you describe the relationship between					
		two variables and use it to make predictions?					
S-ID.6b Informally assess the fit of a			-				
function by plotting and ana	function by plotting and analyzing		How can you use the linear regression function				
residuals		on a graphing calculator to find the line of best fit					
		for a two-variable data set?					
Language objective	Mathematic	al practices	Integrate mathematical practice				
Lunguage Objective	manematic	ai piacuces	MP.1 problem solving				
Distinguish between	MP.1 Problem Solving		Mathematically proficient students				
quantitative data and			start by explaining to themselves				
categorical data.	MP.7 Using Structure		the meaning of a problem and				
categoriear auta.			looking for entry points to its				
In a two-way relative			solution. They analyze givens,				
frequency table, identify a			constraints, relationships, and				
nequency tuble, lucitury a			constraints, relationships, and				

## Corsica Stickney Curriculum Map

joint relative frequency	goals. They make conjectures
and a marginal relative	about the form and meaning of the
frequency, and explain	solution and plan a solution
what they mean.	pathway rather than simply
	jumping into a solution attempt.
Explain the difference	They consider analogous
between a measure of	problems, and try special cases and
between a measure of	
	simpler forms of the original
center and a measure of	problem in order to gain insight
spread.	into its solution. They monitor and
	evaluate their progress and change
Explain to a partner what	course if necessary. Older students
an outlier is.	might, depending on the context of
	the problem, transform algebraic
Explain what each part of	expressions or change the viewing
a histogram represents.	window on their graphing
	calculator to get the information
Describe the	they need. Mathematically
characteristics of a normal	proficient students can explain
distribution	correspondences between
uistribution	*
	equations, verbal descriptions,
Explain the difference	tables, and graphs or draw
between correlation and	diagrams of important features
causation.	and relationships, graph data, and
	search for regularity or trends.
Demonstrate to a partner	Younger students might rely on
how to find and plot the	using concrete objects or pictures
residuals for a line of fit.	to help conceptualize and solve a
Explain what the residuals	problem. Mathematically proficient
tell you about the quality	students check their answers to
of fit.	problems using a different method,
	and they continually ask
	themselves, "Does this make
	sense?" They can understand the
	approaches of others to solving
	complex problems and identify
	correspondences between
	different approaches.
	MMP.7 Using Structure
	Mathematically proficient students
	look closely to discern a pattern or
	structure. Young students, for
	example, might notice that three
	and seven more is the same
	amount as seven and three more,
	or they may sort a collection of
	shapes according to how many

			sides the shapes have. Later, students will see $7 \times 8$ equals the well-remembered $7 \times 5 + 7 \times 3$ in preparation for learning about the distributive property. In the expression x 2 + 9x + 14, older students can see the 14 as 2 × 7 and the 9 as 2 + 7. They recognize the significance of an existing line in a geometric figure and can use the strategy of drawing an auxiliary line for solving problems. They also can step back for an overview and shift perspective. They can see complicated things, such as some algebraic expressions, as single objects or as being composed of several objects. For example, they can see $5 - 3(x - y)^2$ as $5$ minus a positive number times a square and use that to realize that its value cannot be more than 5 for any real numbers x and y		
	Stage 2 – As	ssessment Evi	Ŭ.		
Performance Tasks: Homework quizzes, worksheet, Tests.		Unit Pre-Asse Assign ready-			
Stage 3 – Learning Plan   Learning Activities: procedures/topics   Reading and discussing lesson with class.   Giving students examples to be completed in class.   Students taking notes and using notes to complete homework assignments.					

## **Corsica Stickney Curriculum Map**

## Lesson DescriptionMODULE 8 Multi-Variable Categorical Data8.1 Two-Way Frequency Tables8.2 Relative FrequencyMODULE 9 One-Variable Data Distributions9.1 Measures of Center and Spread9.2 Data Distributions and Outliers9.3 Histograms and Box Plots9.4 Normal DistributionsMODULE 10 Linear Modeling and Regression10.1 Scatter Plots and Trend Lines

10.2 Fitting a Linear Model to Data