Corsica Stickney Curriculum Map

Subject: Mathematics	Teacher: Mr. Jason Broughton
Grade: 7th	Duration: October
Unit 1	
Module 4 Lesson 4.1,4.2,4.3	
Module 5 Lesson 5.1,5.2,5.3	
Summary of unit:	

Students will be able to use rates and proportionality to solve real-world problems. Students will be able to use proportional relationships and percent to solve real world problems.

Stage 1 – Desired Results			
Standards:	Essential Questions:		
7.RP.1 Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units.	How do you find and use unit rates? How can you identify and represent proportional relationships?		
7.RP.2 Recognize and represent proportional relationships between quantities.	How can you use graphs to represent and analyze proportional relationships?		
7.RP.2a Decide whether two quantities	How can you tell whether a relationship between two quantities is or is not proportional?		
are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and	How do you use percents to describe change?		
observing whether the graph is a straight line through the origin.	How can you rewrite expressions to help you solve markup and markdown problems?		
7.RP.2b Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.	How do you use percents to solve problems?		
7.RP.2c Represent proportional relationships by equations.			
7.RP.2d Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, r) where r is the unit rate			
7.RP.3 Use proportional relationships to solve multistep ratio and percent problems.			

 7.NS.3 Solve real-world and mathematical problems inversion operations with rational four operations with rational four operations with rational 7.EE.2 Understand that rew expression in different form problem context can shed liproblem and how the quant related. 7.EE.3 Solve multi-step real mathematical problems positive and negative ration in any form (whole number and decimals), using tools so Apply properties of operation calculate with numbers in a convert between forms as a and assess the reasonablene answers using mental complexity estimation strategies. 	olving the al riting an as in a ght on the ities in it are -life and red with al numbers s, fractions, trategically. ons to ny form; ppropriate; ess of outation and	
Language objective	Mathematical practices	Integrate mathematical practice
Students will learn to find and use unit rates	MP.2 Reason abstractly and quantitatively	MP.4 This lesson provides an opportunity to address this Mathematical Practice standard. It
Students will fully explain how to identify and represent proportional relationships.	MP.4 Model with mathematics.	calls for students to apply mathematics to problems arising in everyday life, society, and the workplace. Students use bar
Students will explain how to use graphs to represent and analyze proportional relationships.	MP.5 Use appropriate tools strategically	diagrams to model the relationship between a rate and a unit rate. Then students divide the numerator of a fraction representing the rate by the denominator to get a unit rate.
Students will show how to use percents to describe change.		Finally, students use unit rates to simplify rates that appear complicated, including rates that are complex fractions, so that they can be compared. In this way
Students will demonstrate and explain how to rewrite expressions to solve markup and		students are able to apply mathematics to problems in everyday life.
markdown problems.		MP.2 This lesson provides an opportunity to address this Mathematical Practice standard. It

Students will write about	calls for students to create and use	
using percents to solve	representations to organize,	
problems.	record, and communicate	
	mathematical ideas. Students use	
	tables to model a relationship	
	between corresponding real-world	
	proportional values. Then students	
	simplify the ratios in the table to	
	relationshin Finally students	
	write an equation for a	
	proportional relationship. In this	
	way, students are able to use	
	representations to organize,	
	record, and communicate	
	mathematical ideas.	
	MP.5 This lesson provides an	
	opportunity to address this	
	Mathematical Practice standard. It	
	to model the relationship between	
	a mathematical expression and a	
	real-world context regarding	
	either a markup or a markdown.	
	This gives students the	
	opportunity to read a real-world	
	situation and use that information	
	represent retail and sale prices	
	Finally, the students use the	
	expression they write to solve	
	problems regarding markups and	
Store 2	markdowns.	
Stage 2 - Assessment Evidence Performance Tasks: Unit Pro-Assessment:		
Homework quizzes, worksheet. Tests.	Assign ready-made or customized practice tests	
	to prepare students for high-stakes tests	
Stage 3 – Learning Plan		

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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.

Lesson Description

Unit 2

Module 4 Lesson 4.1 Unit Rates Lesson 4.2 Constant Rates of Change Lesson 4.3 Proportional Relationships and Graphs.

Module 5

Lesson 5.1 Percent Increase and Decrease Lesson 5.2 Rewriting Percent Expressions

Lesson 5.3 Applications of Percent