Corsica Stickney Curriculum Map

Subject: Mathematics Grade: 7th Unit3 Module 6 Lesson 6.1,6.2,6.3,6.4	Teacher: Mr. Jason Broughton Duration: November
Summary of unit: Students will be able to use algebraic expressions and equations to solve real-world problems.	

Stage 1 – Desired Results

Standards: 7.EE.1 Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients. 7.EE.2 Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related. 7.EE.4 Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities. 7.EE.4a Solve word problems leading to equations of the form px + q = r and p(x + q) = r, where p, q, and r are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach.	Essential Questions: How do you add, subtract, factor, and multiply algebraic expressions? How can using properties of operations to justify your work help you simplify algebraic expressions? How do you use one-step equations with rational coefficients to solve problems? How do you write a two-step equation? How do you solve a two-step equation?

Language objective	**Mathematical practices**	**Integrate mathematical practice**
Students will explain how to add, subtract, factor, and multiply algebraic expressions. Students will describe how to use one-step	MP.4 Model with mathematics. MP.7 Look for and make use of structure.	MP.4 This lesson provides an opportunity to address this Mathematical Practice standard. It calls for students to model with mathematics. Defining variables links the symbols to their real-world meanings. Substituting values for the variables allows students to interpret the results in

equations with rational coefficients to solve problems. Students will explain the rationale for writing a two-step equation. Students will show how to solve two-step equations	MP.1 Make sense of problems and persevere in solving them.	the context of the situation. Students use the sum of expressions to model the situation, to solve the problem, and to answer the question in context. MP.7 This lesson provides an opportunity to address this Mathematical Practice standard. It calls for students to look for and make use of structure. When students solve one-step equations, they first look at the equation to identify the operation involved. Then they identify and use the inverse operation to solve the equation. MP.1 This lesson provides an opportunity to address this Mathematical Practice standard. It calls for students to write equations by analyzing word problems to find the numbers to include in the equations, as well as to identify words that determine the operations to use. Then students write real-world problems by analyzing the numbers and operations used in equations and identifying situations that correspond to the numbers and operations.
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		

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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 MODULE 6 Expressions and Equations Lesson 6.1 Algebraic Expressions Lesson 6.2 One-Step Equations with Rational Coefficients Lesson 6.3 Writing Two-Step Equations Lesson 6.4 Solving Two-Step Equations