Corsica Stickney Curriculum Map

Subject: Algebra 1 Grade:9th Unit: Unit 7 Module 17 Lesson 17.1,17.2,17.3 Module 18 Lesson 18.1, 18.2, 18.3	Teacher: Mr. Jason Broughton Duration: Febuary
Summary of unit: students will complete a Math in Careers task by writing and performing operations on several functions based on camp enrollment and expenses. Critical skills include modeling real-world situations and polynomial addition, subtraction, and multiplication.	

Stage 1 – Desired Results

Standards:	Essential Questions:
A-SSE.A.1a Interpret parts of an expression, such as terms, factors, and coefficients A-APR.A.1 Understand that polynomials form a system analogous to the integers, namely, they are closed under the operations of addition	What are polynomial expressions, and how do you simplify them? How do you add polynomials? How do you subtract polynomials? How can you multiply polynomials by monomials? How do you multiply binomials and polynomials? How can you find special products of binomials?

Language objective	**Mathematical practices**	**Integrate mathematical practice**
Explain to a partner how to find the degree of a polynomial. Explain to a partner how to add two polynomial expressions. Explain to a partner how to subtract two polynomial expressions. Explain to a partner how to use the Product of Powers Property when multiplying monomials.	MP.2 Reasoning MP.3 Logic MP.5 Using Tools	MP.2 Make sure that students understand how the Distributive Property is used to simplify polynomials. Give an example using simple numbers to demonstrate, such as 5(4) + 3(4) = 4 (5 + 3). Students should recognize that the common factor, 4, can be "taken out" and distributed over the sum of the other two factors. MP.3, which calls for students to "construct logical arguments." In this lesson, as students learn procedures for subtracting polynomials, they use properties to justify why each step of the

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Explain to a partner what FOIL means and how you use the FOIL method to multiply two binomials. Explain to a partner what a perfect square trinomial is.		procedure is valid. For example, the Distributive Property allows them to multiply a polynomial by –1 to change each term to its opposite, and the Commutative and Associative Properties of Addition allow them to rearrange and regroup terms. MP.5 After substituting a value for the variable in a polynomial that models a real-world situation, students can use a graphing calculator to evaluate the result.

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

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 17 Adding and Subtracting Polynomials
Lesson 17.1 Understanding Polynomial Expressions
Lesson 17.2 Adding Polynomial Expressions
Lesson 17.3 Subtracting Polynomial Expressions

MODULE 18 Multiplying Polynomials
Lesson 18.1 Multiplying Polynomial Expressions by Monomials
Lesson 18.2 Multiplying Polynomial Expressions
Lesson 18.3 Special Products of Binomials