Unit 09: A1 - Ch. 8 - Polynomials and Factoring

Content Area: Math

Course(s): Algebra 1CP, Algebra 1A, Algebra 1H

Time Period: Marking Period 4

Length: **15 Days** Status: **Published**

Unit Introduction

Standards

MA.A-SSE.A.1a Interpret parts of an expression, such as terms, factors, and coefficients.

MA.A-APR.A.1 Understand that polynomials form a system analogous to the integers, namely, they are

closed under the operations of addition, subtraction, and multiplication; add, subtract,

and multiply polynomials.

Essential Questions

• Can two algebraic expressions that appear to be different be equivalent?

• How are properties of real numbers related to polynomials?

Content

- 8-1 Addition and Subtraction of Polynomials (1 Day)
- 8-2 Multiplying and Factoring (2 Days)
- 8-3 Multiplying Binomials (1 Day)
- 8-4 Multiplying Special Cases (1 Day)
- 8-5 Factoring x^2 + bx + c (2 Days)
- 8-6 Factoring ax^2 +bx + c (2 Days)
- 8-7 Factoring Special Cases (1 Day)
- Supplemental Factoring Completely (2 Days)

Skills

- Adding and Subtracting Monomials
- Adding and Subtracting Polynomials
- Classifying Polynomials
- Factoring a Difference of Two-Squares
- · Factoring a Polynomial Completely

- Factoring by Grouping
- Factoring out the GCF
- Factoring Perfect-Square Trinomials
- Factoring Trinomials when a=1
- Factoring Trinomials when a>1
- Finding the Degree of a Monomial
- Finding the Greatest Common Factor
- Multiplying a Monomial and a Trinomial
- Multiplying a Trinomial and a Binomial
- Multiplying Two Binomials
- Squaring a Binomial
- Use graphing calculators and technology where appropriate
- Use relevant vocabulary, notations, and symbols when appropriate