

## Content Map of Unit

Topic: Polynomials Page 1

Grade: Algebra I

### Key Learning(s):

Multiply, divide, factor and solve polynomials.

### Unit Essential Question(s):

How do the essential components of polynomials help to perform various operations with them? Why would we study polynomials and their various operations?

### Optional Instructional Tools:

#### Concept:

Multiply/divide monomials

#### Concept:

Add/subtract polynomials

#### Concept:

Multiplying polynomials

#### Concept:

Dividing polynomials

#### Lesson Essential Questions:

How can you use patterns to solve problems involving monomials? How do the rules of exponents allow us to multiply and divide monomials? What is the relationship between degrees of equation?

#### Lesson Essential Questions:

What role does the variable play in adding/subtracting of polynomials? How can I classify polynomials? What does the relationship between like terms have to do with adding polynomials?

#### Lesson Essential Questions:

What strategies can we use to multiply binomials? How is the distributive property useful in multiplying polynomials? What are the most effective ways to multiply polynomials?

#### Lesson Essential Questions:

What similarities and differences exist between multiplying polynomials and dividing them? How are exponent laws useful in dividing polynomials? What are the essential components to remember when dividing polynomials?

#### Vocabulary:

product quotient monomials  
powers exponents

#### Vocabulary:

Monomial binomial trinomial  
polynomial like terms  
coefficients

#### Vocabulary:

Laws of exponents FOIL  
distributive property

#### Vocabulary:

#### Additional Information

2.4, 2.12, 2.13, 2.16