

**MATH CURRICULUM SUMMARY – GRADES 7-12**

**Introduction to Algebra &  
Review of Real Number System**

- Define the vocabulary of Algebra
- Simplify numerical expressions
- Identify and use properties of the Real Number System
- Calculate applying the order of operations
- Identify patterns and sequences

**Solving Equations in One Variable and  
Associated Word Problems**

- Identify and use the inverse relationships between addition and subtraction, multiplication and division to determine unknown quantities in equations
- Check a solution for reasonableness and correctness
- Develop a plan to solve application problems

**\*\*Polynomials**

- Develop the laws of exponents
- Simplify sums and products of monomials and polynomials
- Simplify quotients of monomials

**Graphing and  
Systems of Linear Equations**

- Review the Cartesian coordinate system
- Graph a linear function
- Find the slope of a line
- Determine the equation of a line
- Determine the intersection of two lines analytically and graphically
- Solve application problems involving two variables
- Solve Systems of Linear Equations