**Unit 6 – Algebraic Expressions**

**Vocabulary**

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| Variable | A letter or symbol that represents a number |
| Coefficient | A number before the variable that expresses how many of each variable there are. For Ex: 3x The coefficient is 3 therefore there are 3 x's or 3 times x |
| Term | a *term* is either a single number or variable, or the product of several numbers or variables, separated from another term by a + or − sign in an overall expression. For example, in 3 + 4*x* + 5wyz3, 4*x*, and 5*wyz* are all terms. |
| Constant | A value that does not change |
| Expression | A set of numbers that are related to one another by the use of operator symbols that represent a mathematical situation |
| Equation | A mathematical statement that 2 expressions are equal |
| Quantity | A specified or indefinite amount |
| Sum | The answer to an addition problem |
| Difference | The answer to a subtraction problem |
| Product | The answer to a multiplication problem |
| Quotient | The answer to a division problem |
| Like terms | In algebra, like terms are more than one term or terms that have the same variables and powers. The coefficients do not matter. |
| Unlike Terms | Unlike terms are two or more terms that are not like terms, i.e. they do not have the same variables or powers. |
| factored form | An expression is in factored from if it is written as the product of its factors |
| Distributive Property | The property that states if you multiply a sum by a number, you will get the same result if you multiply each addend by that number and then add the products |
| Associative Property | The property that states for three or more numbers, their sum (or product) is always the same, regardless of grouping |
| Commutative Property | The property that states that two or more numbers can be added (or multiplied) in any order without changing the sum (or product) |
| Multiplicative Identity | Any amount multiplied by one is itself |
| Additive Identity | Any amount plus zero is itself |
| sum | The result when two or more numbers are added. |
| addend | A number added to one or more other numbers to form a sum. |
| factor | A number that is multiplied by another number to get a product. |
| expression | A mathematical phrase that contains operations, numbers, and/or variables. |
| least common multiple | The smallest number, other than zero, that is a multiple of two or more given numbers. |
| multiple | The product of any number and a whole number is a multiple of that number. |