Polynomials

**Term:** An expression formed by a product between numbers and variables (letters).

Ex: 4x, 5, x

**Polynomial:** A math expression made up of terms that are connected by addition or subtraction.

Ex: 5x2 + 9y -6xy +4

**Monomial:** a math expression made of *one* term.

Ex: 6xyz

**Binomial:** a math expression made of *two* terms.

Ex: x + 5

**Trinomial:** a math expression made of *three* terms.

Ex: x2 +2x +1

**Constant:** A number in a math expression that is alone. It is not being multiplied by a variable.

Ex: x2 + 2x +1, in this expression, **1** is a constant.

**Coefficient:** A number that multiplies a variable. It is the number in front of a variable.

Ex: x2 + 2x + 1, 2 is the coefficient in the second term and 1 is the coefficient of x2. *Hidden 1s!!!!*

**Degree of a term:** The sum of exponents of all variables within the term.

Ex: 4x2, the degree is 2

Ex: 4xyz, the degree is 3

**Degree of a polynomial:** The highest degree from the terms within the polynomial.

Ex: x2 + 2xy – 4xyz + 3x4

**Representing polynomials with algebra tiles**:

Ex: Represent the following polynomial with algebra tiles.

2x2 – 3x +2