Math 4 Honors

**Unit 1 Learning Goals**

***Functions, Equations and Inequalities***

*Lesson 1-1: Function Family Review*

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| * I can find the domain and range of various function families. * I can use and apply properties of linear, exponential, power, trigonometric, and inverse variation functions. |
| * I can use the parameters of functions to predict the shape and end behavior of function families. |
| * I can understand limit notation and its relationship to end behavior. |

*Lesson 1-2: Composition of Functions*

* I can use the definitions and important properties of arithmetic operations on functions.
* I can combine functions by arithmetic operations.
* I can understand function composition and construct rules for composite functions from rules of the component functions.

*Lesson 1-3: Parametric Equations*

* I can write and graph parametric equations.
* I can convert parametric equations into rectangular form.
* I can solve applications involving parametric equations.

*Lesson 1-4: Solving Equations by Chunking*

* I can use chunking (“*u*”-substitution) and factoring to solve complicated equations.

*Lesson 1-5: Solving Inequalities with Number Line Analysis*

* I can use number line analysis to solve polynomial inequalities.