Unit 1 –Honors Math 3 – Standards
"More Functions, More Features"

NC.M3.A-SSE.1a	a. Identify and interpret parts of a piecewise, absolute value, polynomial, exponential and rational expressions including terms, factors, coefficients, and exponents.
NC.M3.A-CED.1 NC.M3.A-CED.2	Create equations and inequalities in one variable that represents absolute value, polynomial, exponential, and rational relationships and use them to solve problems algebraically and graphically. Create and graph equations in two variables to represent absolute value, polynomial, exponential and rational relationships between quantities.
NC.M3.F-IF.2 NC.M3.F-IF.4 NC.M3.F-IF.7	Use function notation to evaluate piecewise defined functions for inputs in their domains, and interpret statements that use function notation in terms of a context. Interpret key features of graphs, tables, and verbal descriptions in context to describe functions that arise in applications relating two quantities to include periodicity and discontinuities. Analyze piecewise, absolute value, polynomials, exponential, rational, and trigonometric functions (sine and cosine) using different representations to show key features of the graph, by hand in simple cases and using technology for more complicated cases, including: domain and range; intercepts; intervals where the function is increasing, decreasing, positive, or negative; rate of change; relative maximums and minimums; symmetries; end behavior; period; and discontinuities.