



First Semester		Second Semester	
1st Nine Weeks		3rd Nine Weeks	
<p>TEKS</p> <p>2A.2A, 2A.3A, 2A.3B, 2A.3E, 2A.3F, 2A.3G 6.2A, A.2A, A.5A, A.5B, A.2C, A.3C, A.12B</p> <p>2A.6D, 2A.6E, 2A.6F</p> <p>2A.3A, 2A.3B, 2A.3E, 2A.3F, 2A.3G</p>	<p>Unit 1: Parent Functions (12)</p> <ul style="list-style-type: none"> Students will graph quadratic, square root, and absolute value functions using parameter changes. Students will analyze key attributes such as domain, range, x-int, y-int, minimum, maximum, etc. <p>Unit 2: Absolute Value (8)</p> <ul style="list-style-type: none"> Students will solve absolute value equations and inequalities. Students will solve compound absolute value equations and inequalities. <p>Unit 3: Linear Systems & Matrices (9)</p> <ul style="list-style-type: none"> Students will solve systems of three linear equations in three variables using substitution/elimination. Students will formulate and solve systems of three or more linear inequalities. Students will analyze linear programming in real world situations. <p>RTI (1)</p>	<p>2A.2A, 2A.6A, 2A.7B, 2A.7C, 2A.7D, 2A.7E</p> <p>2A.2A, 2A.2B, 2A.2C, 2A.2D, 2A.4F, 2A.4G, 2A.7G, 2A.7H</p> <p>2A.2A, 2A.2C, 2A.5A, 2A.5B, 2A.5C, 2A.5D, 2A.5E</p>	<p>Unit 5: Polynomial Functions (10)</p> <ul style="list-style-type: none"> Students will add, subtract, multiply, and divide polynomials of degree three and four when divided by polynomials of degree one and two. Students will determine the linear factors of a polynomial of degree three or four using algebraic methods, difference/sum of cubes, and factoring by grouping in order to solve. <p>Unit 6: Nth Roots & Radicals (13)</p> <ul style="list-style-type: none"> Students will solve equations involving rational exponents. Students will describe and analyze the relationship between a function and its inverse, including using composition of functions. Students will graph square root, cubic, and cube root functions. <p>Unit 7: Exponential & Logarithms (11)</p> <ul style="list-style-type: none"> Students will interpret exponential growth and decay given data they collect for a real world situation. Students will calculate exponential equations algebraically and with regression. Students will determine the effects of a, b, h, and k on the graphs of $f(x)=a(b)^x$ where b is 2, 10, and e. Students will rewrite exponential equations as their corresponding logarithmic equations and vice versa. <p>RTI (1)</p>

