



**Algebra 2 PreAP/GT
Year at a Glance (YAG)
2019-2020**



First Semester		Second Semester	
1st Nine Weeks – 40 days (August 19 th – October 15 th) (September 2 nd – Labor day – No School) (October 14 th – Staff Development)		3rd Nine Weeks – 45 days (January 6 th – March 17 th) (January 20 th – MLK – No School) (March 9 th – 13 th – Spring Break)	
TEKS 6.2A, A.2A, A.5A, A.5B, A.2C, A.3C, A.12B 2A.6D, 2A.6E, 2A.6F 2A.2A, 2A.3A, 2A.3B, 2A.3E, 2A.3F, 2A.3G 2A.3A, 2A.3B, 2A.3E, 2A.3F, 2A.3G	Unit 1: Algebra Boot Camp (11) <ul style="list-style-type: none"> Students will review Algebra 1 TEKS to reinforce common misconceptions. Unit 2: Absolute Value (8) <ul style="list-style-type: none"> Students will solve absolute value equations and inequalities. Students will solve compound absolute value equations and inequalities. Unit 3: Parent Functions (12) <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. Unit 4: Linear Systems & Matrices (9) <ul style="list-style-type: none"> Students will solve systems of three linear equations in three variables using technology and substitution. Students will formulate and solve systems of three or more linear inequalities. Students will analyze linear programming in real world situations. 	2A.2A, 2A.6A, 2A.7B, 2A.7C, 2A.7D, 2A.7E 2A.2A, 2A.2B, 2A.2C, 2A.2D, 2A.4F, 2A.4G, 2A.7G, 2A.7H 2A.2A, 2A.2C, 2A.5A, 2A.5B, 2A.5C, 2A.5D, 2A.5E	Unit 7: Polynomial Functions (10) <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. Unit 8: Nth Roots & Radicals (13) <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. Unit 9: Used Car PBL, Exponential & Logarithms (11) <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.
	RTI (1)		RTI (1)



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Textbook	Textbook	Textbook	Textbook
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