

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



First Semester		Second Semester		
1st Nine Weeks – 40 days		Second Semester 3rd Nine Weeks – 45 days		
(August 19 th – October 15 th)		(January 6 th – March 17 th)		
(September 2 nd – Labor day – No School) (October 14 th – Staff Development)		(January 20 th – MLK – No School) (March 9 th – 13 th – Spring Break)		
TEKS	Unit 1: Algebra Boot Camp (11)		Unit 7: Polynomial Functions (10)	
6.2A, A.2A, A.5A, A.5B, A.2C, A.3C, A.12B	Students will review Algebra 1 TEKS to reinforce common misconceptions.	2A.2A, 2A.6A, 2A.7B, 2A.7C, 2A.7D, 2A.7E	Students will add, subtract, multiply, and divide polynomials of degree three and four when divided by polynomials of degree one and two.	
2A.6D, 2A.6E, 2A.6F	 Unit 2: Absolute Value (8) Students will solve absolute value equations and inequalities. Students will solve compound absolute value equations and inequalities. 		 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. 	
2A.2A, 2A.3A, 2A.3B, 2A.3E, 2A.3F, 2A.3G	 Unit 3: Parent Functions (12) 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. 	2A.2A, 2A.2B, 2A.2C, 2A.2D, 2A.4F, 2A.4G, 2A.7G, 2A.7H	 Unit 8: Nth Roots & Radicals (13) 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. 	
2A.3A, 2A.3B, 2A.3E, 2A.3F, 2A.3G	 Unit 4: Linear Systems & Matrices (9) 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.2C, 2A.5A, 2A.5B, 2A.5C, 2A.5D, 2A.5E	 Unit 9: Used Car PBL, Exponential & Logarithms (11) 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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2 nd Nine Weeks – 43 da	nve	4 th Nine Weeks – 45	dove	
(October 16 th – December 20 st)		(March 18 th – May 21 rd)		
(November 25 th – 29 th – Thanksgiving Break)		(Match 18 – May 21) (April 10^{th} – Good Friday – No School)		
(December 23 rd – January 3 rd – Holiday Break)		(April 24 th – Battle of Flowers – No School)		
		(May 25th – Memorial Day – No School)		
TEKS 2A.3A, 2A.3B, 2A.3E, 2A.3F, 2A.3G	 Unit 4: Linear Systems & Functions (10) Students will solve systems of three linear equations in three variables using technology and 	2A.2C, 2A.5B, 2A.5C, 2A.5D, 2A.5E	Unit 10: Logarithms (8) • Students will rewrite exponential equations as their corresponding logarithmic equations and vice	
	 substitution. Students will formulate and solve systems of three or more linear inequalities. Students will analyze linear programming in real world situations. 	ZA.JL	versa. Students will determine the reasonableness of a solution given a logarithmic equation. Students will apply mathematical processes to understand exponential and logarithmic functions can be used to model	
2A.7I, 2A.4F, 2A.7A, 2A.4B, 2A.4D, 2A.4H	 Unit 5: Quadratic Functions (13) Students will write the equation of a parabola given attributes including vertex, focus, directrix, axis of symmetry, and direction of opening. Students will solve quadratic 		situations and solve problems. • Students will solve logarithmic functions using logarithmic properties.	
	equations by factoring, quadratic formula, and completing the square. • Students will add, subtract, multiply, and divide complex numbers. Unit 6: Quadratic Applications (8)	G.2B, 2A.4B, G.12E, P3.G, P3.H, P3.I, 2A.3C, 2A.3D	 Unit 11: Conic Sections (11) Students will identify the types of conic sections from standard and center-radius form. Students will complete the square in order to change standard to center-radius form. Students will graph conic sections. 	
2A.7I, 2A.4F, 2A.7A, 2A.4B, 2A.4D, 2A.4H	Students will write the quadratic function given three specified points in a plane using matrices and quadratic regression. RTI (1)	2A.7F, 2A.6G, 2A.6H, 2A.6I, 2A.6J, 2A.6K, 2A.6L	 Unit 12: Rational Functions (14) Students will add, subtract, multiply, and divide rational expressions. Students will identify key aspects of rational functions such as vertical and horizontal asymptotes in order to sketch rational functions. Students will solve rational 	
			 equations that have real solutions. Students will formulate rational equations that model real world situations. Students will determine the reasonableness of a solution to a rational equation. RTI (1)	

Resources			

1st Nine Weeks 2nd Nine Weeks	3rd Nine Weeks	4th Nine Weeks
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