Algebra 2 A Timeline

Quarter	SOL #	Standard	Timeline
1	**1, 4**	**Equations and Inequalities** A. Apply Properties of Real Numbers B. Evaluate and Simplify Algebraic Expressions C. Solve Linear Equations D. Rewrite Formulas and Equations E. Solve Linear Inequalities F. Solve Absolute Value Equations and Inequalities	**6 blocks/ 12 days**
	4 ,8, 9	**Linear Equations and Functions** A. Represent Relations and Function B. Find Slope and Rate of Change C. Graph Equations of Lines D. Write Equations of Lines E. Use Absolute Value Functions And Transformations F. Graph Linear Inequalities in Two Variables	**6 blocks/ 12 days**
	1, 11, 12, 13	**Linear Systems and Matrices** A. Solve Linear Systems by Graphing B. Solve Linear Systems Algebraically C. Graph Systems of Linear Inequalities D. Linear Programming E. Perform Basic Matrix Operations F. Multiply Matrices G. Evaluate Determinants, Apply Cramer's Rule H. Use Inverse Matrices to Solve Linear Systems I. Solve Systems of Linear Equations in Three Variables ***Calculators will be used with matrices.**	**7 blocks/ 14 days**
		Review & DBA Testing	**2 block/ 4 days**
		Total	**9 wks.**

Quarter	SOL #	Standard	Timeline
2	**5, 8, 9, 10**	**Quadratic Functions and Factoring** A. Graph Quadratic Functions in Standard Form B. Graph Quadratic Functions in Vertex or Intercept Form C. Factor using Special Patterns and Trial and Error D. Solve Quadratic Equations by Factoring	**5 blocks/ 10 days**
	5, 6, 8, 9, 10, 15	**Solving Quadratics (part 2)** A. Solve Quadratic Equations by Finding Square Roots B. Perform Operations with Complex Numbers C. Use the Quadratic Formula and Discriminant D. Complete the Square E. Graph and Solve Quadratic Inequalities	**7 blocks/ 14 days**
	5, 8, 9, 10, 15	**Polynomial Functions** A. Use Properties of Exponents B. Evaluate and Graph Polynomial Functions C. Add, Subtract and Multiply Polynomials D. Factor and Solve Polynomial Equations E. Apply Fundamental Theorem of Algebra F. Analyze Graphs of Polynomial Functions	**8 blocks/ 16 days**
		EXAM REVIEW & TESTING	**2 block/ 4 days**
		Total	**9 wks.**

Algebra 2 B Timeline & Content Outline

Quarter	SOL #	Standard	Timeline
3	**3, 7, 8, 9, 10**	**Rational Exponents and Radical Functions** A. Evaluate nth Roots and Use Rational Exponents B. Apply Properties of Rational Exponents C. Perform Function Compositions D. Use Inverse Functions E. Graph Square Root and Cube Root Functions F. Solve Radical Equations	**8 blocks/ 16 days**
	8, 9, 15	**Exponential and Logarithmic Functions** A. Graph Exponential Growth Problems B. Graph Exponential Decay Problems C. Evaluate Logs and Graph Logarithmic Functions * This is just a basic introduction and exposure to the graphs of these functions.	**3 blocks/ 6 days**
	2, 7, 8, 9, 20	**Rational Functions** A. Model Direct, Inverse and Joint Variation B. Graph Simple Rational Functions C. Graph General Rational Functions D. Multiply and Divide Rational Functions E. Add and Subtract Rational Functions F. Solve Rational Equations	**8 blocks/ 16 days**
	19	**Scatter Plots** A. Graph Scatter Plots B. Identify Line of Best Fit C. Make Predictions	**4 blocks/ 8 days**
		Review & DBA Testing	**2 block/ 4 days**
		Total	**9 wks.**

Quarter	SOL #	Standard	Timeline
4	**14, 18**	**Conics Sections** A. Graph & Write Equations of Parabolas B. Graph & Write Equations of Circles C. Graph & Write Equations of Ellipses D. Graph & Write Equations of Hyperbolas E. Solve Quadratic Systems	**6 blocks/ 12 days**
	16	**Sequences and Series** A. Define and Use Sequences and Series B. Analyze Arithmetic Sequences and Series C. Analyze Geometric Sequences and Series D. Find Sums of Infinite Geometric Series	**4 blocks/ 8 days**
		SOL REVIEW & Testing	**5 blocks/ 10 days**
		After SOL Topics: **Normal Distributions** **Logs** **Combinations and Permutations**	
		Total	**9 wks.**