Year at a Glance

Algebra 1 Regular & Honors

Course Number 1200310/1200320

Course Description:

In Algebra 1, instructional time will emphasize five areas: (1) performing operations with polynomials and radicals, and extending the Laws of Exponents to include rational exponents; (2) extending understanding of functions to linear, quadratic and exponential functions and using them to model and analyze real-world relationships; (3) solving quadratic equations in one variable and systems of linear equations and inequalities in two variables; (4) building functions, identifying their key features and representing them in various ways and (5) representing and interpreting categorical and numerical data with one and two variables.

Textbook Publisher:

Florida Reveal Algebra 1, McGraw Hill (Students have online access through My.Sarasotacountyschols.net)

Standards:

Available on CPalms: Algebra 1 & Algebra 1 Honors

Available on Florida Department of Education: Algebra 1 & Algebra 1 Honors

Assessment Dates:

AP1- November 13-17

AP2- February 29-March 7

State End of Course Exam- May

Quarter 1	**Unit 1: Writing and Solving Equations**	1-1 Writing and Interpreting Equations 1-2 Solving Multi-Step Equations 1-3 Solving Equations with the Variable on Each Side 1-4 Solving Equations Using Absolute Value 1-5 Solving Proportions 1-6 Rearranging Formulas
	Unit 2: Linear Inequalities	5-1 Solving One-Step Inequalities 5-2 Solving Multi-Step Inequalities 5-3 Solving Compound Inequalities 5-4 (Honors): Solving Absolute Inequalities
	Unit 3: Graphs and Functions	2-1 Functions 2-2 Linearity and Continuity of Graphs 2-3 Intercepts of Graphs 2-4 Shapes of Graphs 2-5 Sketching Graphs and Comparing Functions
Quarter 2	**Unit 4: Linear and Absolute Value Functions**	3-1 Graphing Linear Functions 3-2 Rate of Change and Slope 3-3 Slope-Intercept Form 3-4 Transformations of Linear Functions 3-4B (Honors): Equations of Transformations of Linear Functions
	Unit 5: Equations of Linear Functions	4-1 Writing Equations in Slope-Intercept Form 4-2 Writing Equations in Standard and Point-Slope Forms 4-3 Scatter Plots and Lines of Fit 4-4 Correlation and Causation 4-5B (Honors): Plotting and Analyzing Residuals
	Unit 6: Systems of Linear Equations and Inequalities	6-1 Solving Systems of Equations by Graphing 6-2 Substitution 6-3 Elimination Using Addition and Subtraction 6-4 Elimination Using Multiplication 6-5 Systems of Inequalities 5-5 Graphing Inequalities in Two Variables
Quarter 3	**Unit 7: Exponents and Roots**	7-1 Multiplication Properties of Exponents 7-2 Division Properties of Exponents 7-3 Negative Exponents 7-4 Rational Exponents 7-5 Simplifying Radical Expressions 7-6 Operations with Radical Expressions
	Unit 8: Exponential Functions	8-1 Exponential Functions 8-2 Interpreting Graphs of Exponential Functions 8-3 Writing Exponential Functions 8-4 Compound Interest 3-5 Simple Interest 8-5 Transforming Exponential Expressions
	Unit 9: Polynomials	9-1 Adding and Subtracting Polynomials 9-2 Multiplying Polynomials by Monomials 9-3 Multiplying Polynomials 9-4 Special Products 9-5 Using the Distributive Property 9-6 Factoring Quadratic Trinomials 9-7 Factoring Special Products 9-8 Dividing Polynomials

Quarter 4	**Unit 10: Quadratic Functions**	10-1 Graphing Quadratic Functions 10-2 Transformations of Quadratic Functions 10-2B (Honors): Equations of Transformations of Quadratic Functions 10-3 Solving Quadratic Equations by Graphing 10-4 Solving Quadratic Equations by Factoring 10-5 Solving Quadratic Equations by Completing the Square 10-6 Solving Quadratic Equations by Using the Quadratic Formula 10-7 Modeling and Curve Fitting 10-8 (Honors): Combining Functions **Additional Topics added from other units:** 3-6 Absolute Value Functions 3-6B (Honors): Equations of Transformation of Absolute Value Functions
	Unit 11: Represent and Interpret Data	11-1 Univariate Data 11-2 Two-Way Frequency Tables 11-2B (Honors): Summarizing Categorical Bivariate Data 11-3 Bivariate Data 11-4 Distributions of Data 11-5 Comparing Sets of Data

Please Note:
- Teachers may use additional resources as noted on an individual teacher's syllabus. For specific questions regarding individual classrooms please contact the teacher for clarification.
- This guide represents a recommended sequence that can be used voluntarily by teachers. Dates may vary depending on individual classrooms. For specific questions regarding pacing please contact the individual teacher for clarification.
- **Graduation Requirements:** Students earning a standard high school diploma must earn at least one math credit in Algebra 1 or an equivalent course. The student must also pass the FSA Algebra 1 End of Course Exam (EOC) or earn a concordant score. More information on graduation requirements and concordant scores can be found here: Graduation Requirements for Florida's Statewide Assessments.