



Franklin County School
Algebra II Honors
Textbook: Florida Reveal Math (McGraw-Hill)

Semester 1	
Instructional Units & Standards Focus	
Quarter 1	Quarter 2
Module 1: Properties of Functions Students will identify various functions, including one-to-one, continuous, discrete, linear and nonlinear, as well as key features of graphs, including extrema, end behavior, and lines of symmetry. Students will sketch and compare graphs of functions including absolute value functions and graphs of translations, dilations, and reflections of functions. MA.912.AR.4.4, MA.912.AR.9.10, MA.912.F.1.7, MA.912.F.1.9, MA.912.F.2.2, MA.912.F.2.3, MA.912.F.2.5	Module 3: Quadratic Functions Students will find and interpret average rate of change of a quadratic function and perform operations with complex numbers. They will find the solutions of quadratic equations by graphing, factoring, and completing the square. Students will use the discriminant to determine the number and type of roots of a quadratic equation. They will solve systems of two quadratic equations and systems of nonlinear relations. MA.912.AR.1.1, MA.912.AR.1.8, MA.912.AR.3.2, MA.912.AR.3.3, MA.912.AR.3.4, MA.912.AR.3.8, MA.912.AR.3.9, MA.912.AR.3.10, MA.912.AR.9.2, MA.912.AR.9.3, MA.912.AR.9.5, MA.912.AR.9.7, MA.912.F.2.3, MA.912.NSO.2.1
Module 2: Linear Equations, Inequalities, and Systems Students will solve absolute value equations and inequalities. They will write equations of linear functions in standard, slope-intercept, and point-slope form including from arithmetic sequences. Students will solve systems of equations and inequalities. MA.912.AR.4.2, MA.912.AR.4.4, MA.912.AR.9.3, MA.912.AR.9.5, MA.912.AR.10.1	Module 4: Polynomials and Polynomial Functions Students will graph power and polynomial functions. They will add, subtract, multiply, and divide polynomials and find the zeros of a polynomial function. MA.912.AR.1.1, MA.912.AR.1.3, MA.912.AR.1.5, MA.912.AR.1.6, MA.912.AR.1.11, MA.912.AR.6.5, MA.912.F.1.7
	Module 5: Polynomial Equations Students will solve polynomial equations by graphing, factoring, and in quadratic form. They will recognize that a binomial is a zero of a polynomial using the remainder theorem, factor theorem, and the fundamental theorem of algebra.



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	MA.912.AR.1.8, MA.912.AR.6.1, MA.912.AR.6.2, MA.912.AR.6.5
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Semester 2	
Instructional Units & Standards Focus	
Quarter 3	Quarter 4
Module 6: Inverse and Radical Functions Students will perform operation on functions including the composition of functions. They will verify mathematically two relations or functions are inverses as well as write expressions with rational exponents. Students will graph square root and cube root functions and perform operations with radical expressions. They will solve radical equations by graphing and algebraically. MA.912.AR.7.1, MA.912.AR.7.2, MA.912.AR.7.3, MA.912.F.2.3, MA.912.F.2.5, MA.912.F.3.2, MA.912.F.3.4, MA.912.F.3.6, MA.912.F.3.7, MA.912.NSO.1.3, MA.912.NSO.1.5	Module 9: Rational Functions Students will add, subtract, multiply, and divide rational expressions. They will graph and analyze reciprocal and rational functions, as well as recognize and solve direct, joint, and inverse variation equations. They will solve rational equations both algebraically and by graphing. MA.912.AR.1.9, MA.912.AR.8.1, MA.912.AR.8.2, MA.912.AR.8.3, MA.912.F.2.3, MA.912.F.2.5
Module 7: Exponential Functions Students will graph exponential growth and decay functions. They will solve exponential equations and understand the natural base e, and use it to solve problems. Students will understand and use geometric sequences and model data by using different types of functions. MA.912.AR.1.1, MA.912.AR.5.2, MA.912.AR.5.4, MA.912.AR.5.5, MA.912.AR.5.7, MA.912.AR.10.2, MA.912.F.1.1, MA.912.F.2.3, MA.912.F.2.5, MA.912.FL.3.2, MA.912.DP.2.8, MA.912.DP.2.9	Module 10: Probability Students will describe events using subsets and solve problems involving complementary, compound, and independent events. Students will solve problems involving conditional probability, mutually exclusive and non-mutually exclusive events, as well as problems that involve conditional probability. MA.912.DP.4.1, MA.912.DP.4.2, MA.912.DP.4.3, MA.912.DP.4.4, MA.912.DP.4.9, MA.912.DP.4.10
Module 8: Logarithmic Functions Students will write, graph, and evaluate logarithms. They will simplify logarithmic expressions and solve logarithmic and exponential equations that include common logarithms as well as natural logarithms. They will write and solve exponential growth and decay problems.	Module 11: Matrices Students will organize data into matrices, state the dimensions of a matrix and identify elements by their position. Students will add, subtract, and multiply matrices. They will also solve systems of equations by using



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MA.912.AR.5.2, MA.912.AR.5.5, MA.912.AR.5.7, MA.912.AR.5.8,
MA.912.AR.5.9, MA.912.FL.3.1, MA.912.FL.3.2, MA.912.FL.3.4,
MA.912.DP.2.9, MA.912.NSO.1.6

determinants. They will find the inverse of a matrix and solve a system of equations and solve a system of equations by using inverses.

MA.912.NSO.4.1, MA.912.NSO.4.2, MA.912.NSO.4.3, MA.912.NSO.4.4