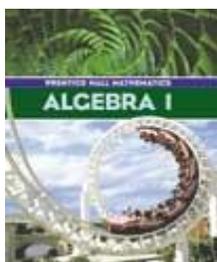


Algebra Next Generation Sunshine State Standards
Conceptual Skills-Textbook Correlation

STANDARD	TEXTBOOK REFERENCE	CHAPTER
MA.912.A.1.8: Use the zero product property of real numbers in a variety of contexts to identify solutions to equations.	536 – 540 , 570, 673	10, 12
MA.912.A.10.1: Use a variety of problem-solving strategies, such as drawing a diagram, making a chart, guessing- and-checking, solving a simpler problem, writing an equation, working backwards, and creating a table.	ASSESSED THROUGHOUT	
MA.912.A.10.2: Decide whether a solution is reasonable in the context of the original situation.	ASSESSED THROUGHOUT	
MA.912.A.2.13: Solve real-world problems involving relations and functions.	241, 243, 276	5
MA.912.A.2.3: Describe the concept of a function, use function notation, determine whether a given relation is a function, and link equations to functions.	243, 276	5
MA.912.A.2.4: Determine the domain and range of a relation.	241, 276	5
MA.912.A.3.1: Solve linear equations in one variable that include simplifying algebraic expressions.	102, 291 – 293, 332, 48 – 49, 50 – 53, 417 - 418	1, 2, 5, 8
MA.912.A.3.10: Write an equation of a line given any of the following information: two points on the line, its slope and one point on the line, or its graph. Also, find an equation of a new line parallel to a given line, or perpendicular to a given line, through a given point on the new line.	311, 312, 284, 285, 298 – 303, 332	6
MA.912.A.3.11: Write an equation of a line that models a data set, and use the equation or the graph to make predictions. Describe the slope of the line in terms of the data, recognizing that the slope is the rate of change.	283 - 289	6
MA.912.A.3.12: Graph a linear equation or inequality in two variables with and without graphing technology. Write an equation or inequality represented by a given graph.	293, 332,	6
MA.912.A.3.13: Use a graph to approximate the solution of a system of linear equations or inequalities in two variables with and without technology.	377 – 379, 385, 389	7
MA.912.A.3.14: Solve systems of linear equations and inequalities in two and three variables using graphical, substitution, and elimination methods.	377 - 384	7
MA.912.A.3.15: Solve real-world problems involving systems of linear equations and inequalities in two and three variables.	377 - 384	7
MA.912.A.3.2: Identify and apply the distributive, associative, and commutative properties of real numbers and the properties of equality.	74, 75 – 77, 54 – 57, 69	1, 2
MA.912.A.3.3: Solve literal equations for a specified variable.	111, 127	2
MA.912.A.3.5: Symbolically represent and solve multi-step and real-world applications that involve linear equations and inequalities.	291 – 309, 134 - 179	3, 6
MA.912.A.3.7: Rewrite equations of a line into slope-intercept form and standard form.	298 – 3-3	6

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MA.912.A.3.8: Graph a line given any of the following information: a table of values, the x- and y-intercepts, two points, the slope and a point, the equation of the line in slope-intercept form, standard form, or point-slope form .	284 – 285, 305, 298 - 303	6
MA.912.A.3.9: Determine the slope, x-intercept, and y-intercept of a line given its graph, its equation, or two points on the line.	284 – 289, 331	6
MA.912.A.4.1: Simplify monomials and monomial expressions using the laws of integral exponents.	456	9
MA.912.A.4.2: Add, subtract, and multiply polynomials.	459 – 461, 462, 468, 504	9
MA.912.A.4.3: Factor polynomial expressions.	463, 496 – 497, 504, 505	9, 10
MA.912.A.4.4: Divide polynomials by monomials and polynomials with various techniques, including synthetic division.	662 – 666, 694	12
MA.912.A.5.1: Simplify algebraic ratios.	182, 227	4
MA.912.A.5.4: Solve algebraic proportions.	183 - 202	4
MA.912.A.6.1: Simplify radical expressions	578 - 583	11
MA.912.A.6.2: Add, subtract, multiply, and divide radical expressions (square roots and higher).	600, 579, 580	11
MA.912.A.7.1: Graph quadratic equations with and without graphing technology.	529 – 552, 530, 535	10
MA.912.A.7.2: Solve quadratic equations over the real numbers by factoring and by using the quadratic formula.	536 - 540	10
MA.912.A.7.8: Use quadratic equations to solve real-world problems.	530	10
MA.912.D.7.1: Perform set operations such as union and intersection, complement, and cross product.	529 – 552, 530, 535	10
MA.912.D.7.2: Use Venn diagrams to explore relationships and patterns and to make arguments about relationships between sets.	536 - 540	10



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