

GLENCOE/MCGRAW-HILL
 MATHEMATICS CORRELATIONS
 ALGEBRA I

Mathematics New Generation Sunshine State Standards Crosswalk Correlations

Course Code 1200310
 The Benchmarks MA.912.A.3.14 and MA.912.A.3.15 are limited to a maximum of two variables in Algebra I and Algebra IH.
 The Benchmark MA.912.A.10.3 is limited to *linear* expressions, equations, and inequalities in Algebra I and Algebra IH.

Assessment

Course Category 6-12
Subject Area Mathematics
Course Type Level 2
Course Title Algebra 1
Course Level 2
Course Length Full year
Credit
Description 1
Abbreviated Title Algebra 1

RELATED BENCHMARKS (40) :

Scheme	Descriptor	Lesson #
LA.910.1.6.1	The student will use new vocabulary that is introduced and taught directly;	Throughout Text See "Reading and Writing Mathematics" in Index
LA.910.1.6.2	The student will listen to, read, and discuss familiar and conceptually challenging text;	Throughout Text See "Study Notebook" In Index
LA.910.1.6.5	The student will relate new vocabulary to familiar words;	Throughout Text

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RELATED BENCHMARKS (40) :

		Lesson #
		See "Vocabulary Builder" and/or "Differentiated Instruction" in Index
LA.910.3.1.3	The student will prewrite by using organizational strategies and tools (e.g., technology, spreadsheet, outline, chart, table, graph, Venn Diagram, web, story map, plot pyramid) to develop a personal organizational style.	Beginning of each chapter See "Communication" in Index
MA.912.A.1.8	Use the zero product property of real numbers in a variety of contexts to identify solutions to equations.	1-4, 1-6, 9-2 through 9-5
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.	1-8, p. 49, p. 204, 4-3, 4-6, p. 263, 10-1, 10-2
MA.912.A.2.4	Determine the domain and range of a relation.	p. 204, 4-3 through 4-6
MA.912.A.2.13	Solve real-world problems involving relations and functions.	1-8, p. 204, 4-3 through 4-8, p. 224, 225
MA.912.A.3.1	Solve linear equations in one variable that include simplifying algebraic expressions.	1-4, p. 127, 141, and 3-2 through 3-9
MA.912.A.3.2	Identify and apply the distributive, associative, and commutative properties of real numbers and the properties of equality.	1-5, 1-6, 6-3, 9-2
MA.912.A.3.3	Solve literal equations for a specified variable.	3-1 and 3-8

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RELATED BENCHMARKS (40) :

		Lesson #
MA.912.A.3.4	Solve and graph simple and compound inequalities in one variable and be able to justify each step in a solution.	1-3, 6-1, 6-2, 6-3, 6-4 & p. 324, 358
MA.912.A.3.5	Symbolically represent and solve multi-step and real-world applications that involve linear equations and inequalities.	3-4, 3-5, 3-9, 4-5, 4-8, 5-2, 6-1 through 6-4, p. 127, 141, and 324
MA.912.A.3.7	Rewrite equations of a line into slope-intercept form and standard form.	4-5, 5-3, 5-4, p. 271, 278 & 279
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 .	4-5, 5-3 through 5-5 p. 224, 225
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.	4-5, 5-1, 5-5
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.	5-1 through 5-6
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.	4-8, 5-1 through 5-4, 5-7

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RELATED BENCHMARKS (40) :

		Lesson #
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.	4-5, 5-3, 6-5, 6-6, p. 224-225, 358
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.	7-1, 7-5, p. 375
MA.912.A.3.14	Solve systems of linear equations and inequalities in two and three variables using graphical, substitution, and elimination methods.	7-1 through 7-5, p. 375
MA.912.A.3.15	Solve real-world problems involving systems of linear equations and inequalities in two and three variables.	4-5, 6-6, through 7-5, p. 358 and 375
MA.912.A.4.1	Simplify monomials and monomial expressions using the laws of integral exponents.	8-1, 8-2
MA.912.A.4.2	Add, subtract, and multiply polynomials.	p. 437, 438 and 8-5, 8-6 p. 450, 451 and 8-7, 8-8
MA.912.A.4.3	Factor polynomial expressions.	9-1 through 9-6 and pp. 480, 487, 488
MA.912.A.4.4	Divide polynomials by monomials and polynomials with various techniques, including synthetic division.	12-2 through 12-5, p. 665
MA.912.A.5.1	Simplify algebraic ratios.	3-6, 8-2, 12-2
MA.912.A.5.4	Solve algebraic proportions.	3-6, 11-6, 11-7
MA.912.A.6.1	Simplify radical expressions	11-1
MA.912.A.6.2	Add, subtract, multiply and divide radical expressions (square roots and higher).	11-2

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RELATED BENCHMARKS (40) :

		Lesson #
MA.912.A.7.1	Graph quadratic equations with and without graphing technology.	9-2, 10-1, 10-2 and p. 531, 532, and 545
MA.912.A.7.2	Solve quadratic equations over the real numbers by factoring, and by using the quadratic formula.	10-2 through 10-4, p. 545
MA.912.A.7.8	Use quadratic equations to solve real-world problems.	10-2 through 10-4, p. 545
MA.912.A.7.10	Use graphing technology to find approximate solutions of quadratic equations.	10-2 through 10-4, p. 531, 545, 553, 600TE, 604
MA.912.A.10.1	Use a variety of problem-solving strategies, such as drawing a diagram, making a chart, guess- and-check, solving a simpler problem, writing an equation, working backwards, and create a table.	1-7, 2-5, 3-1, 3-4, 9-3, 9-4
MA.912.A.10.2	Decide whether a solution is reasonable in the context of the original situation.	Throughout book: See "Checking Solutions" in Index
MA.912.A.10.3	Decide whether a given statement is always, sometimes, or never true (statements involving linear or quadratic expressions, equations, or inequalities rational or radical expressions or logarithmic or exponential functions).	*Need Supplement
MA.912.D.7.1	Perform set operations such as union and intersection, complement, and cross product.	2-1, 2-7, 6-4 *Need Supplement
MA.912.D.7.2	Use Venn diagrams to explore relationships and patterns, and to make arguments about relationships between sets.	2-1, 2-7 *Need Supplement

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RELATED BENCHMARKS (40) :

	Lesson #
MA.912.G.1.4 Use coordinate geometry to find slopes, parallel lines, perpendicular lines, and equations of lines.	5-1 through 5-6

*check www.glencoe.com for additional supplemental lessons online