

GLENCOE/MCGRAW-HILL  
 MATHEMATICS CORRELATIONS  
 ALGEBRA II

Mathematics New Generation Sunshine State Standards Crosswalk Correlations

**Course Code** 1200330  
**Course Category** 6-12  
**Subject Area** Mathematics  
**Course Type** Core  
**Course Title** Algebra 2  
**Course Level** 2  
**Course Length** Full Year  
**Credit Description** 1  
**Abbreviated Title** Algebra 2

**RELATED BENCHMARKS (43) :**

Scheme	Descriptor	Lesson #'s	Page #s
LA.910.1.6.1	The student will use new vocabulary that is introduced and taught directly;	Throughout Text	
LA.910.4.2.1	The student will write in a variety of informational/expository forms, including a variety of technical documents (e.g., how-to-manuals, procedures, assembly directions);	Throughout Text	
MA.912.A.1.6	Identify the real and imaginary parts of complex numbers and perform basic operations.	5-5 through 5-9	AND 601-603
MA.912.A.2.5	Graph absolute value equations and inequalities in two variables.	1-4 through 1-6, 2-6, 2-7, 3-1, 6-2, 6-7, 10-1	AND 829, 832, 841, 844

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<b><u>RELATED BENCHMARKS (43) :</u></b>		Lesson #'s	Page #s
MA.912.A.2.6	Identify and graph common functions (including but not	2-1, 2-6, 2-7, 3-1, 6-1, 6-7, 7-1 through 7-4, 7-9, 9-5, 9-6, 10-1, 10-2, 11-6, 13-6, 13-7	AND 830, 831, 863, 848
MA.912.A.2.7	Perform operations (addition, subtraction, division and multiplication) of functions algebraically, numerically, and graphically.	2-1, 7-5, 7-6, 7-7, 10-1, 14-1	831, 863
MA.912.A.2.8	Determine the composition of functions.	7-7	
MA.912.A.2.10	Describe and graph transformations of functions	4-4, 14-1, 14-2	
MA.912.A.2.11	Solve problems involving functions and their inverses.	4-7, 11-8, 13-7	
MA.912.A.2.12	Solve problems using direct, inverse, and joint variations.	9-4 through 9-6, 10-5, 10-6, 12-3, 12-6, 13-7	AND 848
MA.912.A.3.3	Solve literal equations for a specified variable.	(Throughout Chapt 1) 1-3, 7-7	
MA.912.A.3.6	Solve and graph the solutions of absolute value equations and inequalities with one variable.	1-4, 1-5, 1-6, 2-2 through 2-7, 3-1, 3-2, 3-3, 6-2, 6-7, 7-1 through 7-3, Ch 10, 11-5	AND 829, 832, 839, 841, 844, 8 862

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<u>RELATED BENCHMARKS (43) :</u>	Lesson #'s	Page #s
MA.912.A.3.10 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,	1-3, 2-4 through 2-7	AND 830, 862
MA.912.A.3.14 Solve systems of linear equations and inequalities in two and three variables using graphical, substitution, and elimination methods.	3-1 through 3-5, Ch. 4, 6-1, 9-2, 12-4, 12-5, 12-6, 13-3	AND 832-835, 847, 864
MA.912.A.3.15 Solve real-world problems involving systems of linear equations and inequalities in two and three variables.	3-1 through 3-5, Ch. 4, 6-1, 9-2, 12-4, 12-5, 12-6, 13-3	AND 832-835, 847, 864
MA.912.A.4.3 Factor polynomial expressions.	5-4, 7-3, 7-4, 13-2	AND 816, 837
MA.912.A.4.4 Divide polynomials by monomials and polynomials with various techniques, including synthetic division.	5-2, 5-3, 5-4, 7-3, 7-4, 13-2, 13-7	AND 843
MA.912.A.4.5 Graph polynomial functions with and without technology and describe end behavior.	7-1, 7-2	AND 524 & 868



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<b><u>RELATED BENCHMARKS (43) :</u></b>		Lesson #'s	Page #s
MA.912.A.5.2	Add, subtract, multiply, and divide rational expressions.	Ch 1, 5-1, 5-7, 5-9, 7-3, 7-4, 9-1, 9-2	
MA.912.A.5.3	Simplify complex fractions.	5-9, 7-5, 9-1, 9-2	
MA.912.A.5.5	Solve rational equations.	5-8, 7-9, 9-6	AND 512
MA.912.A.6.2	Add, subtract, multiply and divide radical expressions (square roots and higher).	5-6, 9-1, 9-2	AND 512, 268, 269
MA.912.A.6.3	Simplify expressions using properties of rational exponents.	6-4, 9-6	
MA.912.A.6.4	Convert between rational exponent and radical forms of expressions.		565, 850, 555, 275, 532-536, 56
MA.912.A.6.5	Solve equations that contain radical expressions.	5-8, 7-3, 10-1, 10-2	AND 268-269
MA.912.A.7.3	Solve quadratic equations over the real numbers by	6-3, 6-4, 6-6, 6-7, 7-1, 7-7	AND 490 & 840
MA.912.A.7.4	Use the discriminant to determine the nature of the roots of a quadratic equation.	6-5, 6-6, 6-7, 8-1, 8-2	AND 840
MA.912.A.7.5	Solve quadratic equations over the complex number system.	6-1 through 6-7, 7-2, 8-2, 8-7	AND 490 & 840

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<u>RELATED BENCHMARKS (43) :</u>	Lesson #'s	Page #s
MA.912.A.7.6	7-1, 7-2, 8-1, 8-2, 8-6, 8-7	AND 320-321, 593, & 841-846
MA.912.A.8.1	10-1, 10-2	
MA.912.A.8.2	Chapt 10	
MA.912.A.8.3	Chapt 10	AND 846-848
MA.912.A.8.5	Chapt 10	AND 850
MA.912.A.8.6	10-4, 10-5	
MA.912.A.8.7	10-1, 10-6	AND 849
MA.912.A.10.3	NEED SUPPLEMENTS	

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**RELATED BENCHMARKS (43) :**

		Lesson #'s	Page #s
MA.912.D.11.1	Define arithmetic and geometric sequences and series.	Chapt 11	AND 851-852
MA.912.D.11.3	Find specified terms of arithmetic and geometric sequences.	Chapt 11	AND 851-852

\*check [www.glencoe.com](http://www.glencoe.com) for additional supplemental lessons online