

Correlation from McGraw Hill Ryerson to Pearson: Pre-calculus 11

McGraw Hill Ryerson Pre-Calculus 11	Pearson Pre-calculus 11	Correlation with WNCP Curriculum
Chapter 1 Sequences and Series	Chapter 1 Sequences and Series	
1.1 Arithmetic Sequences	1.1 Arithmetic Sequences	RFSO9, AI: 9.1; 9.2; 9.3; 9.4; 9.5
1.2 Arithmetic Series	1.2 Arithmetic Series	RFSO9, AI: 9.1; 9.6; 9.7; 9.8
1.3 Geometric Sequences	1.3 Geometric Sequences	RFSO10, AI: 10.1; 10.2; 10.3; 10.4; 10.9
1.4 Geometric Series	1.4 Geometric Series	RFSO10, AI: 10.1; 10.5; 10.6, 10.9
1.5 Infinite Geometric Series	1.5 Math Lab: Graphing Geometric Sequences and Series 1.6 Infinite Geometric Series	RFSO10, AI: 10.6; 10.7; 10.8; 10.9

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Chapter 2 Trigonometry	Chapter 6 Trigonometry	
2.1 Angles in Standard Position	6.1 Angles in Standard Position in Quadrant 1 6.2 Angles in Standard Position in All Quadrants	TSO1, AI: 1.1; 1.2; 1.3; 1.4; 1.5; 1.6; 1.7
2.2 Trigonometric Ratios of Any Angle	6.1 Angles in Standard Position in Quadrant 1 6.2 Angles in Standard Position in All Quadrants	TSO2, AI: 2.1; 2.2; 2.3; 2.4; 2.5; 2.6; 2.7; 2.8; 2.9
2.3 The Sine Law	6.3 Math Lab: Constructing Triangles 6.4 The Sine Law	TSO3, AI: 3.1; 3.2; 3.3; 3.5; 3.6
2.4 The Cosine Law	6.5 The Cosine Law	TSO3, AI: 3.1; 3.4

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Chapter 3: Quadratic Functions	Chapter 4: Analyzing Quadratic Functions	
3.1 Investigating Quadratic Functions in Vertex Form	4.3 Math Lab: Transforming the Graph of $y = x^2$ 4.4 Analyzing Quadratic Functions of the Form $y = a(x - p)^2 + q$ 4.7 Modelling and Solving Problems with Quadratic Functions	RFSO3, AI: 3.2; 3.3; 3.4; 3.5; 3.7; 3.8; 3.9 RFSO4, AI: 4.7; 4.8
<p>Note: Pearson defines standard form as $y = a(x - p)^2 + q$, and general form as $y = ax^2 + bx + c$; McGHR defines vertex form as $y = a(x - p)^2 + q$, and standard form as $y = ax^2 + bx + c$. Students will need to be made aware of these differences if you are using both texts.</p>		
3.2 Investigating Quadratic Functions in Standard Form	4.1 Properties of a Quadratic Function 4.7 Modelling and Solving Problems with Quadratic Functions	RFSO4, AI: 4.4; 4.5; 4.7; 4.8
3.3 Completing the Square	4.5 Equivalent Forms of the Equation of a Quadratic Function 4.6 Analyzing Quadratic Functions of the Form $y = ax^2 + bx + c$ 4.7 Modelling and Solving Problems with Quadratic Functions	RFSO4, AI: 4.1; 4.2; 4.3; 4.4; 4.6; 4.7; 4.8

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Chapter 4 Quadratic Equations	Chapter 3 Solving Quadratic Equations Chapter 4 Analyzing Quadratic Functions	
4.1 Graphical Solutions of Quadratic Equations	4.2 Math Lab: Solving a Quadratic Equation Graphically	RFSO5, AI: 5.1; 5.3; 5.7
4.2 Factoring Quadratic Equations	3.1 Factoring Polynomial Expressions 3.2 Solving Quadratic Equations by Factoring	RFSO1, AI: 1.1; 1.2; 1.3; 1.4 RFSO5, AI: 5.3; 5.7
4.3 Solving Quadratic Equations by Completing the Square	3.3 Using Square Roots to Solve Quadratic Equations	RFSO5, AI: 5.3; 5.7
4.4 The Quadratic Formula	3.4 Developing and Applying the Quadratic Formula 3.5 Interpreting the Discriminant	RFSO5, AI: 5.2; 5.3; 5.4; 5.5; 5.6; 5.7

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Chapter 5 Radical Expressions and Equations	Chapter 2 Absolute Value and Radicals Chapter 3 Solving Quadratic Equations	
5.1 Working with Radicals	2.2 Simplifying Radical Expressions 2.3 Adding and Subtracting Radical Expressions	ANSO2, AI: 2.1; 2.2; 2.3; 2.4; 2.7; 2.8; 2.9
5.2 Multiplying and Dividing Radical Expressions	2.4 Multiplying and Dividing Radical Expressions	ANSO2, AI: 2.4; 2.5; 2.6; 2.9
5.3 Radical Equations	2.5 Solving Radical Equations 3.2 Solving Quadratic Equations by Factoring	ANSO3, AI: 3.1; 3.2; 3.3; 3.4; 3.5

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Chapter 6 Rational Expressions and Equations	Chapter 7 Rational Expressions and Equations	
6.1 Rational Expressions	7.1 Equivalent Rational Expressions	ANSO4, AI: 4.1; 4.2; 4.3; 4.4; 4.5; 4.6; 4.7
6.2 Multiplying and Dividing Rational Expressions	7.2 Multiplying and Dividing Rational Expressions	ANSO5, AI: 5.1; 5.2; 5.5; 5.6
6.3 Adding and Subtracting Rational Expressions	7.3 Adding and Subtracting Rational Expressions with Monomial Denominators 7.4 Adding and Subtracting Rational Expressions with Binomial and Trinomial Denominators	ANSO5, AI: 5.1; 5.2; 5.3; 5.4; 5.6
6.4 Rational Equations	7.5 Solving Rational Equations 7.6 Applications of Rational Equations	ANSO6, AI: 6.1; 6.2; 6.4

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Chapter 7 Absolute Value and Reciprocal Functions	Chapter 2 Absolute Value and Radicals Chapter 8 Absolute Value and Reciprocal Functions	
7.1 Absolute Value	2.1 Absolute Value of a Real Number	ANSO1, AI: 1.1; 1.2; 1.3; 1.4; 1.5
7.2 Absolute Value Functions	8.1 Absolute Value Functions	RFSO2, AI: 2.1; 2.2; 2.3
7.3 Absolute Value Equations	8.2 Solving Absolute Value Equations	RFSO2, AI: 2.4; 2.5; 2.6; 2.7; 2.8
7.4 Reciprocal Functions	8.3 Graphing Reciprocals of Linear Functions 8.4 Math Lab: Using Technology to Graph Reciprocals of Quadratic Functions 8.5 Graphing Reciprocals of Quadratic Functions	RFSO11, AI: 11.1; 11.2; 11.3; 11.4

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Chapter 8 Systems of Equations	Chapter 5 Graphing Inequalities and Systems of Equations	
8.1 Solving Systems of Equations Graphically	5.4 Math Lab: Solving Systems of Equations Graphically	RFSO6, AI: 6.2; 6.3; 6.5; 6.6; 6.7
8.2 Solving Systems of Equations Algebraically	5.5 Solving Systems of Equations Algebraically	RFSO6, AI: 6.1; 6.2; 6.4; 6.7

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Chapter 9 Linear and Quadratic Inequalities	Chapter 5 Graphing Inequalities and Systems of Equations	
9.1 Linear Inequalities in Two Variables	5.2 Graphing Linear Inequalities in Two Variables	RFSO7, AI: 7.1; 7.2; 7.3; 7.4
9.2 Quadratic Inequalities in One Variable	5.1 Solving Quadratic Inequalities in One Variable	RFSO8, AI: 8.1; 8.2; 8.3
9.3 Quadratic Inequalities in Two Variables	5.3 Graphing Quadratic Inequalities in Two Variables	RFSO7, AI: 7.1; 7.2; 7.3; 7.4