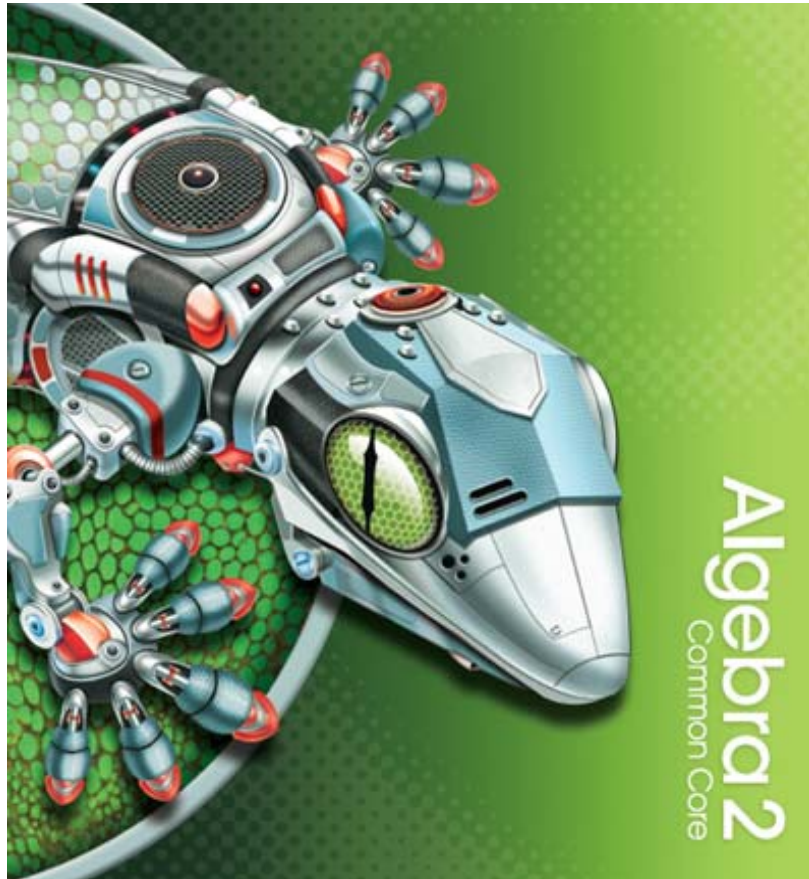


A Correlation of
Pearson Mathematics
Algebra 2 Common Core
© 2015



to the
New York State Mathematics
Curriculum Modules for
Algebra II Modules from
Common Core, Inc.

**A Correlation of Pearson Mathematics Algebra 2 Common Core, ©2015
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Introduction

This document demonstrates how *Pearson Mathematics: Algebra 2 Common Core, ©2015* aligns with the New York State Mathematics Curriculum Modules for Algebra II Modules from Common Core, Inc. Correlation references are to the pages of the Student and Teacher's Editions, Concept Bytes, and Learning Resources within the Teacher's Edition.

Pearson Mathematics: Algebra 2 Common Core is not just "aligned" to the Common Core State Standards, it was written specifically for the Common Core State Standards. The program fully addresses the Common Core Content Standards and infuses the Standards for Mathematical Practice throughout every lesson.

Pearson Mathematics: Algebra 2 Common Core incorporates a blend of print and digital components to tap into the power of mathematics and mathematical reasoning. The wealth and flexibility of resources will enable you to easily adapt to the changing needs of your classroom.

Program Features

- Offers unmatched development of problem solving throughout the entire program with the Solve It, Think-Write Boxes and Know-Need-Plan Boxes, Think About a Plan Worksheets, Performance Tasks, and other features unique to the program.
- Teachers can enrich instruction with interactive lesson content and video that makes real-world connections, and models thinking and reasoning using interactive tools at PowerAlgebra.com and PowerGeometry.com. Students can complete lessons independently and receive immediate feedback using the online content to support in-class instruction.
- Teachers are provided targeted support to ensure successful transition to a Common Core State Standards-based curriculum with resources such as a Common Core Overview and Implementation Guide. All teaching resources are available in one easy to access location in print and online.

This document demonstrates the high degree of success students will achieve by using *Pearson Mathematics: Algebra 2 Common Core*.

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Topic Pacing	Algebra II Modules from Common Core, Inc.	NY CCLS	Pearson Algebra 2 Common Core ©2015
45 days	Algebra II Module 1: Polynomial, Rational, and Radical Relationships	N-Q.1	3.1: Solving Systems Using Tables and Graphs, 3.2: Solving Systems Algebraically, 3.3: Systems of Inequalities, 3.5: Concept Byte: Graphs in Three-Dimensions, 3.5: Systems With Three Variables, 4.4: Factoring Quadratic Expressions, 4.5: Quadratic Equations, 4.6: Completing the Square, 4.7: The Quadratic Formula, 4.8: Complex Numbers, 4.9: Concept Byte: Quadratic Inequalities, 4.9: Quadratic Systems, 5.1: Polynomial Functions, 5.2: Polynomials, Linear Factors, and Zeros, 5.3: Solving Polynomial Equations, 5.4: Dividing Polynomials, 5.5: Theorems About Roots of Polynomial Equations, 5.5: Concept Byte: Using Polynomial Identities, 5.6: The Fundamental Theorem of Algebra, 5.6: Concept Byte: Graphing Polynomials Using Zeros, 5.9: Transforming Polynomial Functions, 6.1: Roots and Radical Expressions, 6.2: Multiplying and Dividing Radical Expressions, 6.3: Binomial Radical Expressions, 6.5: Solving Square Root and Other Radical Equations, 8.6: Solving Rational Equations, 10.1: Exploring Conic Sections, 10.1: Concept Byte: Graphing Conic Sections, 10.2: Parabolas, 10.6: Translating Conic Sections, 10.6: Concept Byte: Solving Quadratic Systems
		N-Q.2	
		N-Q.3	
		N-CN.7	
		A-SSE.2	
		A-APR.2	
		A-APR.3	
		A-APR.4	
		A-APR.6	
		A-REI.1	
		A-REI.2	
		A-REI.4	
		A-REI.4b	
		A-REI.6	
		A-REI.7	
		F-IF.7	
F-IF.7c			
G-GPE.2			

Key

Number and Quantity And Modeling	Geometry And Modeling	Algebra and Modeling	Statistics and Probability And Modeling	Functions And Modeling
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Major Clusters – areas of intensive focus, where students need fluent understanding and application of the core concepts (approximately 70%).	Supporting Clusters – rethinking and linking areas where some material is covered, but in a way that applies core understandings (approximately 20%).	Additional Clusters – expose students to other subjects, though at a distinct, level of depth and intensity (approximately 10%).
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*The (+) standards are included in the Algebra II course to provide coherence to the curriculum. They can be used to effectively extend a topic or to introduce a theme/concept that will be fully covered in the Precalculus course.

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Topic Pacing	Algebra II Modules from Common Core, Inc.	NY CCLS	Pearson Algebra 2 Common Core ©2015
	Extensions to the Algebra II*	N-CN.8	4.8: Complex Numbers, 5.5: Theorems About Roots of Polynomial Equations, 5.6: The Fundamental Theorem of Algebra, 7.5: Concept Byte: Using Logarithms for Exponential Models, 8.4: Rational Expressions, 8.5: Adding and Subtracting Rational Expressions, 8.6: Solving Rational Equations
		N-CN.9	
		A-APR.7	
20 days	Algebra II Module 2: Trigonometric Functions	F-TF.1	13.1: Exploring Periodic Data, 13.2: Angles and the Unit Circle, 13.3: Concept Byte: Measuring Radians, 13.3: Radian Measure, 13.4: The Sine Function, 13.4: Concept Byte: Graphing Trigonometric Functions, 13.5: The Cosine Function, 13.6: The Tangent Function, 13.7: Translating Sine and Cosine Functions, 14.1: Trigonometric Identities
		F-TF.2	
		F-TF.5	
		F-TF.8	
	Extensions to the Algebra II*	F-TF.3	14.6: Angle Identities, 14.7: Double Angle and Half Angle Identities
		F-TF.9	

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Topic Pacing	Algebra II Modules from Common Core, Inc.	NY CCLS	Pearson Algebra 2 Common Core ©2015
4.5 days	Algebra II Module 3: Functions	N-RN.1	1.1: Patterns and Expressions, 1.3: Algebraic Expression, 1.4: Solving Equations, 1.5: Solving Inequalities, 1.6: Absolute Value Equations and Inequalities, 2.2: Direct Variation, 2.3: Linear Functions and Slope-Intercept Form, 2.4: More About Linear Equations, 2.5: Using Linear Models, 2.6: Families of Functions, 2.7: Absolute Value Functions and Graphs, 4.1: Quadratic Functions and Transformations, 4.2: Standard Form of a Quadratic Function, 4.3: Modeling With Quadratic Functions, 4.5: Quadratic Equations, 4.9: Quadratic Systems, 5.3: Solving Polynomial Equations, 5.8: Polynomial Models in the Real World, 5.9: Transforming Polynomial Functions, 6.1: Concept Byte: Properties of Exponents, 6.4: Rational Exponents, 6.6: Function Operations, 6.7: Inverse Relations and Functions, 6.8: Graphing Radical Functions, 7.1: Exploring Exponential Models, 7.2: Properties of Exponential Functions, 7.3: Logarithmic Functions as Inverses, 7.4: Properties of Logarithms, 7.5: Exponential and Logarithmic Equations, 7.6: Natural Logarithms, 8.2: The Reciprocal Function Family, 8.3: Rational Functions and Their Graphs, 8.6: Solving Rational Equations, 9.1: Mathematical Patterns, 9.2: Arithmetic Sequences, 9.3: Geometric Sequences, 9.4: Arithmetic Series, 9.5: Geometric Series, 10.6: Translating Conic Sections, 13.1: Exploring Periodic Data, 13.4: The Sine Function, 13.5: The Cosine Function, 13.6: The Tangent Function, 13.7: Translating Sine and Cosine Functions, 13.8: Reciprocal Trigonometric Functions
		N-RN.2	
		N-Q.2	
		A-SSE.3	
		A-SSE.3c	
		A-SSE.4	
		A-CED.1	
		A-REI.11	
		F-IF.3	
		F-IF.4	
		F-IF.6	
		F-IF.7	
		F-IF.7e	
		F-IF.8	
		F-IF.8b	
		F-IF.9	
		F-BF.1	
		F-BF.1a	
		F-BF.1b	
		F-BF.2	
F-BF.3			
F-BF.4			
F-BF.4a			
F-LE.2			
F-LE.4			
F-LE.5			

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Number and Quantity And Modeling	Geometry And Modeling	Algebra and Modeling	Statistics and Probability And Modeling	Functions And Modeling
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Topic Pacing	Algebra II Modules from Common Core, Inc.	NY CCLS	Pearson Algebra 2 Common Core ©2015
40 days	Algebra II Module 4: Inferences and Conclusions from Data	N-Q.2	11.2: Probability, 11.3: Probability of Multiple Events, 11.3: Concept Byte: Probability Distributions, 11.4: Conditional Probability, 11.7: Standard Deviation, 11.8: Samples and Surveys, 11.10: Normal Distributions, 11.10: Concept Byte: Margin of Error, 11.10: Concept Byte: Drawing Conclusions from Samples
		S-ID.4	
		S-ID.6	
		S-ID.6a	
		S-IC.1	
		S-IC.2	
		S-IC.3	
		S-IC.4	
		S-IC.5	
		S-IC.6	
		S-CP.1	
		S-CP.2	
		S-CP.3	
		S-CP.4	
S-CP.5			
S-CP.6			
S-CP.7			
20 days	Review and Examinations		

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