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Publisher Resource:

CollegePrepAlgebra.com

Other Course Supplemental Resources:

	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 12 – Oct 11	1 8/12 – 8/16	**Chapter 1 – The Real Number System** • Lesson 1.1 - Real Numbers • Lesson 1.2 - Add & Subtract Integers • Lesson 1.3 - Multiplying & Dividing Integers and Lesson • Lesson 1.4 - Operations with Rational Numbers • Topic 20 - Real number operations • Lesson 1.5 - Exponents and Properties of Real Numbers • Topic 5 - Repeating Decimals • Assessment	Real Numbers - YouTube Video Real Numbers - Khan Academy Operations with Integers and Rational Numbers - YouTube Video Operations with Integers and Rational Numbers - Khan Academy Exponents, Properties of Real Numbers, and Repeating Decimals - YouTube Video Exponents, Properties of Real Numbers, and Repeating Decimals - Khan Academy
	2 8/19 – 8/23	**Chapter 2 - Fundamentals of Algebra** • Lesson 2.1 - Writing and Evaluating Algebraic Expressions • Lesson 2.2 - Simplifying Algebraic Expressions • Lesson 2.3 - Algebra and Problem Solving • Lesson 2.4 - Introduction to Equations • Assessment	Writing and Evaluating Algebraic Expressions - YouTube Video Writing and Evaluating Algebraic Expressions - Khan Academy Simplifying Algebraic Expressions - YouTube Video Simplifying Algebraic Expressions Khan Academy Algebra and Problem Solving - YouTube Video Algebra and Problem Solving - Khan Academy Solving Linear Equations - YouTube Video Solving Linear Equations - Khan Academy Equations that Reduce to Linear Form - YouTube Video Equations that Reduce to Linear Form - Khan Academy
	3 8/26 – 8/30	**Chapter 3 - Equations, Inequalities, and Problem Solving** • Unit 3 – Lesson 3.1 - Solving Linear Equations • Lesson 3.2 - Equations that Reduce to Linear Form • Lesson 3.3 - Problem Solving with Percents • Lesson 3.4 - Ratios and Proportions • Review • Assessment	Solving Linear Equations - YouTube Video Solving Linear Equations - Khan Academy Equations that Reduce to Linear Form - YouTube Video Equations that Reduce to Linear Form - Khan Academy Problem Solving with Percents - YouTube Video Problem Solving with Percents - Khan Academy Ratios and Proportions - YouTube Video Ratios and Proportions - Khan Academy
	4 9/3 – 9/6	• Topic 10- Partitioning Segments • Lesson 3.5 - Geometric and Scientific Applications	Geometric and Scientific Applications - YouTube Video Geometric and Scientific Applications - Khan Academy
	5 9/9 – 9/13	• Lesson 3.6 - Linear Inequalities • Lesson 3.7 - Absolute Value Equations and Inequalities • Review • Assessment	Linear Inequalities - YouTube Video Linear Inequalities Khan Academy Absolute Value Equations and Inequalities - YouTube Video Absolute Value Equations and Inequalities - Khan Academy

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	Week	Chapter/Lessons	Possible Resources
	6 9/16 – 9/20	**Chapter 4 - Graphs and Functions** • Unit 4 – Lesson 4.1 - Ordered Pairs and Graphs • Lesson 4.2 - Graphs of Equations in Two variables • Lesson 4.3 - Relations, Functions, and Graphs • Assessment	Ordered Pairs and Graphs - YouTube Video Ordered Pairs and Graphs - Khan Academy Graphs of Equations in Two Variables - YouTube Video Graphs of Equations in Two Variables - Khan Academy Relations, Functions, and Graphs - YouTube Video Relations, Functions, and Graphs - Khan Academy
	7 9/23 – 9/27	**Chapter 4 - Graphs and Functions** • Lesson 4.4 - Slope and Graphs of Linear Equations • Topic 16 - Graphing Proportional Relationships • Review • Assessment	Slope and Graphs of Linear Equations - YouTube Video Slope and Graphs of Linear Equations - Khan Academy
	8 9/30 – 10/4	**Chapter 4 - Graphs and Functions** • Topic 9 - Step and Piecewise functions • Lesson 4.5 - Equations of Lines • Topic 11 - Scatterplots and lines of Fit	Equations of Lines - YouTube Video Equations of Lines – Khan Academy
	9 10/7 – 10/11	**Chapter 4 - Graphs and Functions** • Lesson 4.6 - Graphs of linear Inequalities • Review • Assessment	Graphs of Linear Inequalities – YouTube Video Graphs of Linear Inequalities – Khan Academy

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Quarter 2 Oct 15 – Dec 20	1 10/15 – 10/18	**Chapter 5 - Exponents and Polynomials** • Unit 5 – Lesson 5.1 - Integer Exponents, and Scientific Notation • Lesson 5.2 - Adding and Subtracting Polynomials • Assessment	Integer Exponents, and Scientific Notation - YouTube Video Integer Exponents, and Scientific Notation - Khan Academy Adding and Subtracting Polynomials – YouTube Video Adding and Subtracting Polynomials – Khan Academy
	2 10/21 – 10/25	**Chapter 5 - Exponents and Polynomials** • Lesson 5.3 - Multiplying Polynomials; Special Products • Lesson 5.4 - Diving Polynomials and Synthetic Division • Assessment	Multiplying Polynomials - YouTube Video Multiplying Polynomials - Khan Academy Dividing Polynomials - YouTube Video Dividing Polynomials - Khan Academy
	3 10/28 – 11/1	**Chapter 6 - Factoring and Solving Equations** • Unit 6 – Lesson 6.1 - Factoring Polynomials with Common Factors • Lesson 6.2 - Factoring Trinomials	Factoring Polynomials with Common Factors - YouTube Video Factoring Polynomials with Common Factors - Khan Academy Factoring Trinomials - YouTube Video Factoring Trinomials - Khan Academy
	4 11/4 – 11/8	**Chapter 6 - Factoring and Solving Equations** • Lesson 6.3 - More about Factoring Trinomials • Assessment • Lesson 6.4 – Factoring Polynomials with Special Forms	Factoring Trinomials - YouTube Video Factoring Trinomials - Khan Academy Factoring Polynomials with Special Forms - YouTube Video Factoring Polynomials with Special Forms - Khan Academy
	5 11/12 – 11/15	**Chapter 6 - Factoring and Solving Equations** • Lesson 6.5 - Solving Polynomial Equations by Factoring • Review • Assessment	Solving Polynomial Equations by Factoring - YouTube Video Solving Polynomial Equations by Factoring - Khan Academy
	6 11/18 – 11/22	**Chapter 7 - Rational Expressions, Equations, and Functions** • Unit 7 – Lesson 7.1 Rational Expressions and Functions	Rational Expressions and Functions - YouTube Video Rational Expressions and Functions - Khan Academy
	7 11/25 – 11/26	**Chapter 7 - Rational Expressions, Equations, and Functions** • Lesson 7.2 - Multiplying and Dividing Rational Expressions • Lesson 7.3 - Adding and Subtracting Rational Expressions • Assessment	Multiplying/Dividing Rational Expressions - YouTube Video Multiplying/Dividing Rational Expressions - Khan Academy Adding/Subtracting Rational Expressions - YouTube Video Adding/Subtracting Rational Expressions - Khan Academy

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	8 12/2 – 12/6	**Chapter 7 - Rational Expressions, Equations, and Functions** • Lesson 7.4 - Complex Fractions • Lesson 7.5 – Solving Rational Equations • Assessment	Complex Fractions - YouTube Video Complex Fractions - Khan Academy Solving Rational Equations - YouTube Video Solving Rational Equations - Khan Academy
	9 12/9 – 12/13	• Exam Review	
	10 12/16 – 12/20	• Semester Review/District Exams	

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Quarter 3 Jan 6 – Mar 12	**1** 1/6– 1/10	**Chapter 7 - Rational Expressions, Equations, and Functions** • Review Lesson 7.1 and 7.5 • Topic 15 – Graphing Rational Functions • Lesson 7-6 - Applications and Variation • Assessment	Graphing Rational Functions - YouTube Video Applications and Variation - YouTube Video Applications and Variation - Khan Academy
	2 1/13 – 1/17	**Chapter 8 - Systems of Equations and Inequalities** • Lesson 8.1 - Solving systems of Equations by Graphing and Substitution • Lesson 8.2 - Solving Systems of Equations by Elimination • Lesson 8.6 – Systems of linear Inequalities	Solving Systems of Equation by Graphing and Substitution - YouTube Video Solving Systems of Equation by Graphing and Substitution - Khan Academy Solving Systems by Elimination - YouTube Video Solving Systems by Elimination - Khan Academy Systems of Linear Inequalities - YouTube Video Systems of Linear Inequalities - Khan Academy
	3 1/21 – 1/24	**Chapter 8 - Systems of Equations and Inequalities** • Lesson 8.6 – Systems of linear Inequalities • Assessment 8.1, 8.2, 8.6 **Chapter 9 - Radicals and Complex Numbers** • Lesson 9.1 - Radicals and Rational Exponents	Radicals and Rational Exponents - YouTube Video Radicals and Rational Exponents - Khan Academy
	4 1/27 – 1/30	**Chapter 9 - Radicals and Complex Numbers** • Lesson 9.1 - Radicals and Rational Exponents • Lesson 9.2 – Simplifying Radical Expressions • Topic 19 - The Distance Formula	Simplifying Radical Expressions - YouTube Video Simplifying Radical Expressions - Khan Academy
	5 2/3 – 2/7	**Chapter 9 - Radicals and Complex Numbers** • Lesson 9.3 – Adding and Subtracting Radical Expressions • Review • Assessment	Adding and Subtracting Radical Expressions - YouTube Video Adding and Subtracting Radical Expressions - Khan Academy
	6 2/10 – 2/14	**Chapter 9 - Radicals and Complex Numbers** • Lesson 9.4 Multiplying and Dividing Radical Expressions • Topic 18 - Graphing Square and Cube Root Functions • Lesson 9.5 – Radical Equations and Applications • Lesson 9.6 - Complex Numbers	Multiplying/Dividing Radical Expressions - YouTube Video Multiplying/Dividing Radical Expressions - Khan Academy Radical Equations - YouTube Video Radical Equations - Khan Academy Complex Numbers - YouTube Video Complex Numbers - Khan Academy

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	7 2/17 – 2/21	• Review • Assessment **Chapter 10 - Quadratic Equations, Functions, and Inequalities** • Unit 10 – Lesson 10.1 - Solving Quadratic Equations	Solving Quadratic Equations - YouTube Video Solving Quadratic Equations - Khan Academy
	8 2/24 – 2/28	• Unit 10 – Lesson 10.1 - Solving Quadratic Equations • Lesson 10.2 - Completing the Square • Lesson 10.3 – Quadratic Formula	Completing the Square - YouTube Video Completing the Square - Khan Academy Quadratic Formula - YouTube Video Quadratic Formula - Khan Academy
	9 3/2 – 3/6	**Chapter 10 - Quadratic Equations, Functions, and Inequalities** • Lesson 10.4 – Graphs of Quadratic Functions • Topic 8 – Symmetry and Behavior of Graphs • Lesson 10.5 – Applications of Quadratic Equations	Graphs of Quadratic Equations - YouTube Video Graphs of Quadratic Equations - Khan Academy Applications of Quadratics -YouTube Video Applications of Quadratics -Khan Academy
	10 3/9 – 3/12	• Review • Assessment • Lesson 10.6 - Quadratic and Rational Inequalities	Quadratic and Rational Inequalities - YouTube Video Quadratic and Rational Inequalities - Khan Academy

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Quarter 4 Mar 23 – May 27	1 3/16 – 3/20	• **SPRING BREAK – NO SCHOOL**	
	2 3/23 – 3/27	**Chapter 11 - Quadratic Equations, Functions, and Inequalities** • Lesson 11.1 - Exponential Functions • Lesson 11.2 - Composite and Inverse Functions • Assessment	Exponential Functions - YouTube Video Exponential Functions - Khan Academy Composite and Inverse Functions - YouTube Video Composite and Inverse Functions - Khan Academy
	3 3/30 – 4/3	**Chapter 11 - Quadratic Equations, Functions, and Inequalities** • Review 11.1, 11.2 Exponential Functions and Composite and Inverse Functions • Lesson 11.3 - Logarithmic Functions • Lesson 11.4 - Properties of Logarithms	Logarithmic Functions -YouTube Video Logarithmic Functions – Khan Academy Properties of Logarithms – YouTube Video Properties of Logarithms – Khan Academy
	4 4/6 – 4/9	**Chapter 11 - Quadratic Equations, Functions, and Inequalities** • Lesson 11.5 - Solving Exponential and Logarithmic Equations • Lesson 11.6 - Applications • Topic 21 - Two-way tables	Solving Exponential and Logarithmic Equations - YouTube Video Solving Exponential and Logarithmic Equations - Khan Academy Applications - Khan Academy Two-Way Tables -YouTube Video
	5 4/14 – 4/17	• Review • Chapter 11 Assessment **Chapter 12 - Conics** • Unit 12 – Lesson 12.1 - Circles and Parabolas • Lesson 12.2 – Ellipses	Circles and Parabolas -YouTube Video Circles and Parabolas -Khan Academy Ellipses - YouTube Video Ellipses – Khan Academy
	6 4/20 – 4/24	**Chapter 12 - Conics** • Lesson 12.2 – Ellipses • Lesson 12.3 – Hyperbolas • Lesson 12.4 - Solving non-linear systems of equations	Hyperbolas - YouTube Video Hyperbolas - Khan Academy
	7 4/27 – 5/1	**Chapter 12 - Conics** • Lesson 12.4 - Solving non-linear systems of equations • Review • Assessment	Solving Non-Linear Systems -YouTube Video Solving Non-Linear Systems - Khan Academy
	8 5/4 – 5/8	• Standards Review	
	9 5/11 – 5/15	• Standards Review	

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	10 5/18 – 5/22	• Standards Review	
	11 5/25 – 5/27	• District Final Exams	

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