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Publisher Resource:

CollegePrepAlgebra.com

Other Course Supplemental Resources:

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	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 10 – Oct 12	1 8/10	**Chapter 1 – The Real Number System** • Lesson 1.1 - Real Numbers	Lesson 1.1 and 1.2 – YouTube Video Lesson 1.1 and 1.2 – Khan Academy
	2 8/13 – 8/17	• 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 **Chapter 2 - Fundamentals of Algebra** • Lesson 2.1 - Writing and Evaluating Algebraic Expressions • Lesson 2.2 - Simplifying Algebraic Expressions	Lesson 1.1 and 1.2 – YouTube Video Lesson 1.1 and 1.2 – Khan Academy Lesson 1.3 and 1.4 – YouTube Video Lesson 1.3 and 1.4 – Khan Academy Lesson 1.5 and Topic 5 – YouTube Video Lesson 1.5 and Topic 5 – Khan Academy Lesson 2.1 – YouTube Video Lesson 2.1 – Khan Academy Lesson 2.2 - YouTube Video Lesson 2.2 - Khan Academy
	3 8/20 – 8/24	• Lesson 2.3 - Algebra and Problem Solving • Lesson 2.4 - Introduction to Equations • Assessment **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 2.3 – YouTube Video Lesson 2.3 – Khan Academy Lesson 3.1 – YouTube Video Lesson 3.1 – Khan Academy Lesson 3.2 – YouTube Video Lesson 3.2 – Khan Academy
	4 8/27 – 8/31	• Lesson 3.3 - Problem Solving with Percents • Lesson 3.4 - Ratios and Proportions • Review • Assessment	Lesson 3.3 – YouTube Video Lesson 3.3 – Khan Academy Lesson 3.4 – YouTube Video Lesson 3.4 – Khan Academy

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5 9/3 – 9/7	• Topic 10- Partitioning Segments • Lesson 3.5 - Geometric and Scientific Applications	Lesson 3.5 – YouTube Video Lesson 3.5 – Khan Academy
6 9/10 – 9/14	• Lesson 3.6 - Linear Inequalities • Lesson 3.7 - Absolute Value Equations and Inequalities • Review • Assessment	Lessons 3.6 – YouTube Video Lessons 3.6 – Khan Academy Lessons 3.7 – YouTube Video Lessons 3.7 – Khan Academy
7 9/17 – 9/21	**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	Lesson 4.1 – YouTube Video Lesson 4.1 – Khan Academy Lesson 4.2 – YouTube Video Lesson 4.2 – Khan Academy Lesson 4.3 – YouTube Video Lesson 4.3 – Khan Academy
8 9/24 – 9/28	**Chapter 4 - Graphs and Functions** • Lesson 4.4 - Slope and Graphs of Linear Equations • Topic 16 - Graphing Proportional Relationships • Review • Assessment	Lesson 4.4 – YouTube Video Lesson 4.4 – Khan Academy
9 10/1 – 10/5	**Chapter 4 - Graphs and Functions** • Topic 9 - Step and Piecewise functions • Lesson 4.5 - Equations of Lines • Topic 11 - Scatterplots and lines of Fit	Lesson 4.5 – YouTube Video Lesson 4.5 – Khan Academy
10 10/8 – 10/12	**Chapter 4 - Graphs and Functions** • Lesson 4.6 - Graphs of linear Inequalities • Review • Assessment	Lesson 4.6 – YouTube Video Lesson 4.6 – Khan Academy

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Mathematics for College Readiness   2018 – 2019

	Week	Major Concepts / Topics	Possible Resources
Quarter 2 Oct 16 – Dec 21	1 10/16 – 10/19	**Chapter 5 - Exponents and Polynomials** • Unit 5 – Lesson 5.1 - Integer Exponents, and Scientific Notation • Lesson 5.2 - Adding and Subtracting Polynomials • Assessment	Lesson 5.1 – YouTube Video Lesson 5.1 – Khan Academy Lesson 5.2 – YouTube Video Lesson 5.2 – Khan Academy
	2 10/22 – 10/26	**Chapter 5 - Exponents and Polynomials** • Lesson 5.3 - Multiplying Polynomials; Special Products • Lesson 5.4 - Diving Polynomials and Synthetic Division • Assessment	Lesson 5.3 – YouTube Video Lesson 5.3 – Khan Academy Lesson 5.4 – YouTube Video Lesson 5.4 – Khan Academy
	3 10/29 – 11/2	**Chapter 6 - Factoring and Solving Equations** • Unit 6 – Lesson 6.1 - Factoring Polynomials with Common Factors • Lesson 6.2 - Factoring Trinomials	Lesson 6.1 – YouTube Video Lesson 6.1 – Khan Academy Lesson 6.2 – YouTube Video Lesson 6.2 – Khan Academy
	4 11/5 – 11/9	**Chapter 6 - Factoring and Solving Equations** • Lesson 6.3 - More about Factoring Trinomials • Assessment • Lesson 6.4 – Factoring Polynomials with Special Forms	Lesson 6.3 – YouTube Video Lesson 6.3 – Khan Academy Lesson 6.4 – YouTube Video Lesson 6.4 – Khan Academy
	5 11/12 – 11/16	**Chapter 6 - Factoring and Solving Equations** • Lesson 6.5 - Solving Polynomial Equations by Factoring • Review • Assessment	Lesson 6.5 – YouTube Video Lesson 6.5 – Khan Academy
	6 11/19 – 11/20	**Chapter 7 - Rational Expressions, Equations, and Functions** • Unit 7 – Lesson 7.1 Rational Expressions and Functions	Lesson 7.1 - YouTube Video Lesson 7.1 – Khan Academy

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	7 11/26 – 11/30	**Chapter 7 - Rational Expressions, Equations, and Functions** • Lesson 7.2 - Multiplying and Dividing Rational Expressions • Lesson 7.3 - Adding and Subtracting Rational Expressions • Assessment	Lesson 7.2 – YouTube Video Lesson 7.2 – Khan Academy Lesson 7.3 – YouTube Video Lesson 7.3 – Khan Academy
	8 12/3 – 12/7	**Chapter 7 - Rational Expressions, Equations, and Functions** • Lesson 7.4 - Complex Fractions • Lesson 7.5 – Solving Rational Equations • Assessment	Lesson 7.4 - YouTube Video Lesson 7.4 – Khan Academy Lesson 7.5 - YouTube Video Lesson 7.5 – Khan Academy
	9 12/10 – 12/14	• Exam Review	
	10 12/17 – 12/21	• Semester Review/District Exams	

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Mathematics for College Readiness   2018 – 2019

	Week	Major Concepts / Topics	Possible Resources
Quarter 3 Jan 7 – Mar 14	1 1/7– 1/11	**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	Topic 15 - YouTube Video Lesson 7.6 - YouTube Video Lesson 7.6 – Khan Academy
	2 1/14 – 1/18	**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	Lesson 8.1 – YouTube Video Lesson 8.1 – Khan Academy Lesson 8.2 – YouTube Video Lesson 8.2 – Khan Academy Lesson 8.6 – YouTube Video Lesson 8.6 – Khan Academy
	3 1/21 – 1/25	**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	Lesson 9.1 - YouTube Video Lesson 9.1 – Khan Academy
	4 1/28 – 2/1	**Chapter 9 - Radicals and Complex Numbers** • Lesson 9.1 - Radicals and Rational Exponents • Lesson 9.2 – Simplifying Radical Expressions • Topic 19 - The Distance Formula	Lesson 9.2 - YouTube Video Lesson 9.2 - Khan Academy
	5 2/4 – 2/8	**Chapter 9 - Radicals and Complex Numbers** • Lesson 9.3 – Adding and Subtracting Radical Expressions • Review • Assessment	Lesson 9.3 - YouTube Video Lesson 9.3 – Khan Academy

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	6 2/11 – 2/15	**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	Lesson 9.4 – YouTube Video Lesson 9.4 – Khan Academy Lesson 9.5 – YouTube Video Lesson 9.5 – Khan Academy Lesson 9.6 – YouTube Video Lesson 9.6 – Khan Academy
	7 2/18 – 2/22	• Review • Assessment **Chapter 10 - Quadratic Equations, Functions, and Inequalities** • Unit 10 – Lesson 10.1 - Solving Quadratic Equations	Lesson 10.1 - YouTube Video Lesson 10.1 – Khan Academy
	8 2/25 – 3/1	• Unit 10 – Lesson 10.1 - Solving Quadratic Equations • Lesson 10.2 - Completing the Square • Lesson 10.3 – Quadratic Formula	Lesson 10.2 - YouTube Video Lesson 10.2 – Khan Academy Lesson 10.3 - YouTube Video Lesson 10.3 – Khan Academy
	9 3/4 – 3/8	**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	Lesson 10.4 - YouTube Video Lesson 10.4 – Khan Academy Lesson 10.5 - YouTube Video Lesson 10.5 – Khan Academy
	10 3/11 – 3/14	• Review • Assessment • Lesson 10.6 - Quadratic and Rational Inequalities	Lesson 10.6 - YouTube Video Lesson 10.6 – Khan Academy

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	Week	Major Concepts / Topics	Possible Resources
Quarter 4 Mar 18 – May 24	1 3/18 – 3/22	• **SPRING BREAK – NO SCHOOL**	
	2 3/25 – 3/29	**Chapter 11 - Quadratic Equations, Functions, and Inequalities** • Lesson 11.1 - Exponential Functions • Lesson 11.2 - Composite and Inverse Functions • Assessment	Lesson 11.1 – YouTube Video Lesson 11.1 – Khan Academy Lesson 11.2 - YouTube Video Lesson 11.2 – Khan Academy
	3 4/1 – 4/5	**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	Lesson 11.3 – YouTube Video Lesson 11.3 – Khan Academy Lesson 11.4 – YouTube Video Lesson 11.4 – Khan Academy
	4 4/8 – 4/12	**Chapter 11 - Quadratic Equations, Functions, and Inequalities** • Lesson 11.5 - Solving Exponential and Logarithmic Equations • Lesson 11.6 - Applications • Topic 21 - Two-way tables	Lesson 11.5 – YouTube Video Lesson 11.5 – Khan Academy Lesson 11.6 – Khan Academy Topic 21 - YouTube Video
	5 4/15 – 4/19	• Review • Chapter 11 Assessment **Chapter 12 - Conics** • Unit 12 – Lesson 12.1 - Circles and Parabolas • Lesson 12.2 – Ellipses	Lesson 12.1 – YouTube Video Lesson 12.1 – Khan Academy Lesson 12.2 - YouTube Video Lesson 12.2 – Khan Academy
	6 4/22 – 4/26	**Chapter 12 - Conics** • Lesson 12.2 – Ellipses • Lesson 12.3 – Hyperbolas	Lesson 12.3 – YouTube Video Lesson 12.3 – Khan Academy

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		• Lesson 12.4 - Solving non-linear systems of equations	
	7 4/29 – 5/3	**Chapter 12 - Conics** • Lesson 12.4 - Solving non-linear systems of equations • Review • Assessment	Lesson 12.4 - YouTube Video Lesson 12.4 – Khan Academy
	8 5/6 – 5/10	• Standards Review	
	9 5/13 – 5/17	• Standards Review	
	10 5/20 – 5/24	• District Final Exams	

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