

Please Note:

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Publisher Resource:

[Mathematics Vision Project](#)

Other Course Supplemental Resources:

[Khan Academy](#)

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Liberal Arts Mathematics 2

2017 – 2018

	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 10 – Oct 13	1 8/10 - 8/11	Unit 1 Graphing Linear Equations <ul style="list-style-type: none"> Graph Slope-Intercept Form Graph Standard Form 	Slope Khan Academy Slope-Intercept Form Khan Academy Standard Form Khan Academy
	2 8/14 – 8/18	<ul style="list-style-type: none"> Graph Point-Slope Form Graph given 2 points Graphing Systems of Equations Graphing Inequalities Graphing Real-World Situations 	Point-Slope Form Khan Academy Graph Given 2 Points Khan Academy Systems of Equations Khan Academy Parent Functions Virtual Nerd Graphing Linear Inequalities Khan Academy
	3 8/21 – 8/25	<ul style="list-style-type: none"> Assessment Unit 2 Linear Equations & Inequalities <ul style="list-style-type: none"> Linear Equations in Slope-Intercept Form Linear Equations in Point-Slope Form 	Linear Equations Khan Academy
	4 8/28 – 9/1	<ul style="list-style-type: none"> Finding Slope Linear Equations Given 2 Points Parallel & Perpendicular Lines Real-World Linear Equations 	Parallel & Perpendicular Lines Khan Academy
	5 9/5 – 9/8	<ul style="list-style-type: none"> Systems intersections Assessment Unit 3 Sequences and Series <ul style="list-style-type: none"> Arithmetic Sequences & Series 	Solving Systems of Equations Graphically Khan Academy Solving Systems of Equations Algebraically Khan Academy
	6 9/11 – 9/15	<ul style="list-style-type: none"> Arithmetic Sequences & Series Geometric Sequence & Series 	Sequences Khan Academy Arithmetic Sequences Khan Academy Geometric Sequences Khan Academy
	7 9/18 – 9/22	<ul style="list-style-type: none"> Geometric Sequence & Series Assessment Unit 4 Complex Numbers <ul style="list-style-type: none"> Operations with Complex Numbers 	
	8 9/25 – 9/29	<ul style="list-style-type: none"> Operations with Complex Numbers Solve using Square Roots w/ Complex Numbers 	Complex Numbers Khan Academy Operations with Complex Numbers Khan Academy
	9 10/2 – 10/6	<ul style="list-style-type: none"> Assessment Unit 5 Solving Quadratics by Factoring and Completing the Square <ul style="list-style-type: none"> Factoring Quadratics 	Factoring Quadratics Khan Academy
	10 10/9 – 10/13	<ul style="list-style-type: none"> Quarter 1 Review 	Completing the Square Khan Academy

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Quarter 2 Oct 17 – Dec 21	1 10/17 – 10/20	Unit 5 Solving Quadratics by Factoring and Completing the Square (continue) <ul style="list-style-type: none"> • Factoring Quadratics • Completing the Square 	Completing the Square Khan Academy
	2 10/23 – 10/27	<ul style="list-style-type: none"> • Completing the Square • Completing the Square vs Factoring 	
	3 10/30 – 11/3	<ul style="list-style-type: none"> • Quadratic Formula • Completing the Square vs Factoring vs Quadratic Formula 	Quadratic Formula Khan Academy
	4 11/6 – 11/9	<ul style="list-style-type: none"> • Assessment Unit 6 Parabolas and their Graphs <ul style="list-style-type: none"> • Parabolas in Vertex Form • Parabolas in Standard Form 	Transformations of Quadratics Youtube Parabolas in Vertex Form Khan Academy Parabolas in Standard Form Khan Academy Transformations of Quadratics Youtube
	5 11/13 – 11/17	<ul style="list-style-type: none"> • Graphing Parabolas in Real-World Situations 	
	6 11/20 – 11/21	<ul style="list-style-type: none"> • Graphing using Focus & Directrix 	Focus and Directrix Khan Academy
	7 11/27 – 12/1	<ul style="list-style-type: none"> • Graphing using Focus & Directrix • Assessment Unit 7 Polynomial Functions and Their Graphs <ul style="list-style-type: none"> • Long Division 	Long Division Khan Academy
	8 12/4 – 12/8	<ul style="list-style-type: none"> • Long Division • Synthetic • Assessment 	Synthetic Division Khan Academy
	9 12/11 – 12/15	<ul style="list-style-type: none"> • Semester 1 Review 	
	10 12/18 – 12/21	<ul style="list-style-type: none"> • District Exams 	

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Quarter 3 Jan 8 – Mar 15	1 1/8 – 1/12	Unit 7 Polynomial Functions and Their Graphs (continued) <ul style="list-style-type: none"> Review Division Graphing Polynomials Given Zeros Graphing Polynomials in Factored Form Write Equations Given the Graph Fundamental Theorem of Algebra 	Graphs of Polynomials Khan Academy
	2 1/16 – 1/19	<ul style="list-style-type: none"> Fundamental Theorem of Algebra 	
	3 1/22 – 1/26	<ul style="list-style-type: none"> Assessment Unit 8 Exponents & Radicals <ul style="list-style-type: none"> Simplify Radicals Rational Exponents Exponential Properties 	Radical Expressions & Rational Exponents Khan Academy Radical Functions Khan Academy Radical Equations Khan Academy
	4 1/30 – 2/2	<ul style="list-style-type: none"> Exponential Properties Graphing Exponentials Assessment 	Exponential Growth/Decay Functions Khan Academy
	5 2/5 – 2/9	Unit 9 Exponential and Logarithmic Functions <ul style="list-style-type: none"> Exponential Word Problems Simple Exponential Equations Simple Exponential Equations with Log/Ln 	Inverses of Functions Khan Academy Logarithmic Functions Khan Academy Properties of Logs Khan Academy Exponential/Log Equations Khan Academy
	6 2/12 – 2/16	Unit 9 Exponential and Logarithmic Functions <ul style="list-style-type: none"> Simple Exponential Equations with Log/Ln Assessment 	Natural Base, e Khan Academy
	7 2/20 – 2/23	Unit 10 Statistics <ul style="list-style-type: none"> Observational Study Experiment Sampling Methods Margin of Error 	Survey/Observational Study/Experiment Youtube
	8 2/26 – 3/2	<ul style="list-style-type: none"> Margin of Error Skewed Data and Bias 	Data Gathering Khan Academy
	9 3/5 – 3/9	<ul style="list-style-type: none"> Assessment Unit 11 Probabilities <ul style="list-style-type: none"> Independent Events Dependent Events 	Independent/Dependent Events Khan Academy

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	10 3/12 – 3/15	<ul style="list-style-type: none">• Venn Diagrams• Two-Way Tables	Two-way Tables Khan Academy Venn Diagrams Khan Academy Compound Events Khan Academy Theoretical/Experimental Probability Khan Academy
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Quarter 4 Mar 19 – May 24	1 3/19 – 3/23	Unit 11 Probabilities (continued) <ul style="list-style-type: none"> • Conditional Probability • Assessment 	Conditional Probability Khan Academy
	2 3/26 – 3/30	<ul style="list-style-type: none"> • SPRING BREAK – NO SCHOOL 	
	3 4/2 – 4/6	Unit 12 Rational Expressions <ul style="list-style-type: none"> • Graphing Rational Equations • Graphing Exponential vs. Rational 	Graphing Rational Functions Khan Academy
	4 4/9 – 4/13	<ul style="list-style-type: none"> • Graphing Exponential vs. Rational • Graphing Multiple Types • Assessment Unit 13 Circles <ul style="list-style-type: none"> • Equations of Circles given center and radius 	Graphing Exponential Khan Academy
	5 4/16 – 4/20	<ul style="list-style-type: none"> • Graphing Circles given center and radius • Equations of Circles given center and point on the circle 	Circles Khan Academy Graphing Circles Khan Academy
	6 4/23 – 4/27	<ul style="list-style-type: none"> • Graphing Circles given center and radius • Equations of Circles given center and point on the circle • Equations of Circles using Completing the Square 	
	7 4/30 – 5/4	<ul style="list-style-type: none"> • Graphing and Solving Systems of Equations with Circles and Lines • Assessment Unit 14 Graphing Everything <ul style="list-style-type: none"> • Graph Square Root Functions • Graph Cube Root Functions 	Solving Non-Linear Systems Khan Academy Square Root Youtube Cube Root Youtube
	8 5/7 – 5/11	<ul style="list-style-type: none"> • Graph Absolute Value Functions • Graph Vertex Form of Parabola • Assessment 	Absolute Value Khan Academy Parabolas in Vertex Form Khan Academy
	9 5/14 – 5/18	<ul style="list-style-type: none"> • Course Review 	
	10 5/21 – 5/24	<ul style="list-style-type: none"> • Final Exams 	

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