

Please Note:

All standards are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course are best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

Publisher Resource:

[Mathematics Vision Project](#)

Other Course Supplemental Resources:

[Khan Academy](#)

All standards are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

Liberal Arts Mathematics 2

2016 – 2017

	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 10 – Oct 14	1 8/10 - 8/12	Unit 1 Sequences and Series <ul style="list-style-type: none"> Arithmetic Sequences & Series Geometric Sequence & Series 	Sequences Khan Academy Arithmetic Sequences Khan Academy Geometric Sequences Khan Academy
	2 8/15 – 8/19	Unit 1 Sequences and Series <ul style="list-style-type: none"> Geometric Sequence & Series Assessment 	Summation Notation Khan Academy
	3 8/22 – 8/26	Unit 2 Graphing Linear Equations <ul style="list-style-type: none"> Graph Slope-Intercept Form Graph Standard Form Graph Point-Slope Form Graph given 2 points Graphing Systems of Equations 	Slope Khan Academy Slope-Intercept Form Khan Academy Standard Form Khan Academy Point-Slope Form Khan Academy Graph Given 2 Points Khan Academy Systems of Equations Khan Academy
	4 8/29 – 9/2	Unit 2 Graphing Linear Equations <ul style="list-style-type: none"> Graphing Inequalities Graphing Real-World Situations Assessment Unit 3 Linear Equations & Inequalities <ul style="list-style-type: none"> Linear Equations in Slope-Intercept Form 	Parent Functions Virtual Nerd Graphing Linear Inequalities Khan Academy Quadratic Inequalities Khan Academy Linear Equations Khan Academy
	5 9/6 – 9/9	Unit 3 Linear Equations & Inequalities <ul style="list-style-type: none"> Linear Equations in Point-Slope Form Finding Slope Linear Equations Given 2 Points Parallel & Perpendicular Lines 	Solving Systems of Equations Graphically Khan Academy Solving Systems of Equations Algebraically Khan Academy Parallel & Perpendicular Lines Khan Academy
	6 9/12 – 9/16	Unit 3 Linear Equations & Inequalities <ul style="list-style-type: none"> Parallel & Perpendicular Lines Real-World Linear Equations Assessment 	
	7 9/19 – 9/23	Unit 4 Solving Quadratics by Factoring and Completing the Square <ul style="list-style-type: none"> Factoring Quadratics Assessment 	Factoring Quadratics Khan Academy Standard Form of Quadratics Khan Academy Solving Quadratics Khan Academy
	8 9/26 – 9/30	Unit 4 Solving Quadratics by Factoring and Completing the Square <ul style="list-style-type: none"> Completing the Square 	Completing the Square Khan Academy
	9 10/3 – 10/7	Unit 4 Solving Quadratics by Factoring, Quadratic Formula and Completing the Square	

All standards are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

Liberal Arts Mathematics 2

2016 – 2017

		<ul style="list-style-type: none"> • Assessment • Quarter Review 	
	<p>10 10/10 – 10/14</p>	<ul style="list-style-type: none"> • Quarter Review • Assessment 	

All standards are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

Liberal Arts Mathematics 2

2016 – 2017

	Week	Major Concepts / Topics	Possible Resources
Quarter 2 Oct 18 – Dec 21	1 10/18 – 10/21	Unit 4 Solving Quadratics by Factoring and Completing the Square <ul style="list-style-type: none"> Quadratic Formula Assessment 	Quadratic Formula Khan Academy
	2 10/24 – 10/28	Unit 5 Parabolas and their Graphs <ul style="list-style-type: none"> Parabolas in Vertex Form Parabolas in Standard Form Parabolas in Factored Form 	Transformations of Quadratics Youtube Parabolas in Vertex Form Khan Academy Parabolas in Standard Form Khan Academy Transformations of Quadratics Youtube
	3 10/31 – 11/4	Unit 5 Parabolas and their Graphs <ul style="list-style-type: none"> Graphing Parabolas in Real-World Situations Assessment Graphing using Focus & Directrix 	Focus and Directrix Khan Academy
	4 11/7 – 11/10	Unit 5 Parabolas and their Graphs <ul style="list-style-type: none"> Graphing using Focus & Directrix Assessment 	
	5 11/14 – 11/18	Unit 6 Complex Numbers <ul style="list-style-type: none"> Operations with Complex Numbers Solve using Square Roots w/ Complex Numbers Assessment 	Complex Numbers Khan Academy Operations with Complex Numbers Khan Academy
	6 11/21 – 11/22	Unit 7 Polynomial Functions and Their Graphs <ul style="list-style-type: none"> Synthetic Division Long Division 	Synthetic Division Khan Academy Long Division Khan Academy
	7 11/28 – 12/2	Unit 7 Polynomial Functions and Their Graphs <ul style="list-style-type: none"> Graphing Polynomials Given Zeros Graphing Polynomials in Factored Form Write Equations Given the Graph Fundamental Theorem of Algebra 	Graphs of Polynomials Khan Academy
	8 12/5 – 12/9	Unit 7 Polynomial Functions and Their Graphs <ul style="list-style-type: none"> Fundamental Theorem of Algebra Assessment 	Fundamental Theorem of Algebra Khan Academy
	9 12/12 – 12/16	<ul style="list-style-type: none"> Semester 1 Review 	
	10 12/19 – 12/21	<ul style="list-style-type: none"> District Exams 	

All standards are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

	Week	Major Concepts / Topics	Possible Resources
Quarter 3 Jan 5 – Mar 10	1 1/5 – 1/6	Unit 8 Exponents & Radicals <ul style="list-style-type: none"> • Simplify Radicals • Rational Exponents 	Radical Expressions & Rational Exponents Khan Academy Radical Functions Khan Academy Radical Equations Khan Academy
	2 1/9 – 1/13	Unit 8 Exponents & Radicals <ul style="list-style-type: none"> • Exponential Properties • Graphing Exponentials • Assessment 	Exponential Growth/Decay Functions Khan Academy
	3 1/17 – 1/20	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
	4 1/23 – 1/27	Unit 9 Exponential and Logarithmic Functions <ul style="list-style-type: none"> • Simple Exponential Equations with Log/Ln • Assessment 	Natural Base, e Khan Academy
	5 1/30 – 2/3	Unit 10 Statistics <ul style="list-style-type: none"> • Observational Study • Experiment • Sampling Methods • Margin of Error 	Survey/Observational Study/Experiment Youtube
	6 2/6 – 2/10	Unit 10 Statistics <ul style="list-style-type: none"> • Skewed Data and Bias • Assessment 	Data Gathering Khan Academy
	7 2/13 – 2/16	Unit 11 Probabilities <ul style="list-style-type: none"> • Independent Events • Dependent Events 	Independent/Dependent Events Khan Academy
	8 2/21 – 2/24	Unit 11 Probabilities <ul style="list-style-type: none"> • Dependent Events • Venn Diagrams • Two-Way Tables 	Two-way Tables Khan Academy Venn Diagrams Khan Academy Compound Events Khan Academy Theoretical/Experimental Probability Khan Academy
	9 2/27 – 3/3	Unit 11 Probabilities <ul style="list-style-type: none"> • Conditional Probability • Assessment 	Conditional Probability Khan Academy
	10 3/6 – 3/10	<ul style="list-style-type: none"> • Standards Based Performance Tasks • Assessment 	

All standards are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

Liberal Arts Mathematics 2

2016 – 2017

	Week	Major Concepts / Topics	Possible Resources
Quarter 4 Mar 21 – May 24	1 3/12 – 3/24	Unit 12 Rational Expressions <ul style="list-style-type: none"> Graphing Rational Equations 	Graphing Rational Functions Khan Academy
	2 3/27 – 3/31	Unit 12 Rational Expressions <ul style="list-style-type: none"> Graphing Exponential vs. Rational Graphing Multiple Types Assessment 	Graphing Exponential Khan Academy
	3 4/3 – 4/7	Unit 13 Circles <ul style="list-style-type: none"> Equations of Circles given center and radius Graphing Circles given center and radius Equations of Circles given center and point on the circle 	Circles Khan Academy Graphing Circles Khan Academy
	4 4/10 – 4/13	Unit 13 Circles <ul style="list-style-type: none"> Equations of Circles given center and point on the circle Equations of Circles using Completing the Square 	
	5 4/17 – 4/21	Unit 13 Circles <ul style="list-style-type: none"> Graphing and Solving Systems of Equations with Circles and Lines Assessment 	Solving Non-Linear Systems Khan Academy
	6 4/24 – 4/28	Unit 14 Graphing Everything <ul style="list-style-type: none"> Graph Square Root Functions Graph Cube Root Functions Graph Absolute Value Functions Graph Vertex Form of Parabola 	Square Root Youtube Cube Root Youtube Absolute Value Khan Academy Parabolas in Vertex Form Khan Academy
	7 5/1 – 5/5	Unit 14 Graphing Everything <ul style="list-style-type: none"> Assessment Standards Based Performance Tasks 	
	8 5/8 – 5/12	<ul style="list-style-type: none"> Course Review 	
	9 5/15 – 5/19	<ul style="list-style-type: none"> Course Review 	
	10 5/22 – 5/24	<ul style="list-style-type: none"> Final Exams 	

All standards are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.