

**Please Note:**

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**Publisher Resource:**

Thinking Mathematically, 6<sup>th</sup> edition, Blitzer

**Other Course Supplemental Resources:**

[Math Nation](#) (University of Florida and Study Edge partnership to help students succeed on the Algebra 1, Geometry and Algebra 2 FSA EOC)  
Username and password will be the student's active directory information provided by the teacher.

[Khan Academy](#) (Personalized learning resource for all ages including instructional videos and practice exercises)

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# Liberal Arts Mathematics 1

2018 – 2019

	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 10 – Oct 13	1 8/10 - 8/13	Chapter 5 (Unit 1) – Number Theory and the Real Number System <ul style="list-style-type: none"> <li>Section 5.2: The Integers; Order of Operations</li> </ul>	Khan Academy - <a href="#">Order of operations</a>
	2 8/14 – 8/20	<ul style="list-style-type: none"> <li>Section 5.3: The Rational Numbers</li> <li>Quiz</li> <li>Section 5.4: The Irrational Numbers</li> <li>Section 5.5: The Real Numbers and Their Properties; Clock Addition</li> <li>Review and/or Assessment</li> </ul>	Khan Academy - <a href="#">Rational and irrational numbers</a> Khan Academy - <a href="#">Irrational numbers</a> Khan Academy - <a href="#">Arithmetic properties</a>
	3 8/21 – 8/24	Chapter 6 (Unit 2)– Algebra: Equations and Inequalities <ul style="list-style-type: none"> <li>Section 6.1: Algebraic Expressions and Formulas</li> <li>Section 6.2: Linear Equations in One Variable and Proportions</li> </ul>	Khan Academy - <a href="#">Algebraic expressions</a> Khan Academy - <a href="#">Linear equations and inequalities</a>
	4 8/27 – 8/31	<ul style="list-style-type: none"> <li>Section 6.3: Applications of Linear Equations</li> <li>Section 6.4: Linear Inequalities in One Variable</li> </ul>	Khan Academy - <a href="#">One-variable linear inequalities</a> Khan Academy - <a href="#">Two-step equations word problems</a> IXL – <a href="#">Linear inequalities: word problems</a>
	5 9/4 – 9/7	<ul style="list-style-type: none"> <li>Solving Radical Equations</li> <li>Review</li> <li>Unit 2 Test</li> </ul>	Khan Academy - <a href="#">Radical equations and functions</a> Khan Academy - <a href="#">Solving radical equations</a>
	6 9/10 – 9/14	Chapter 7 (Unit 3) – Algebra: Graphs, Equations, and Linear Systems <ul style="list-style-type: none"> <li>Section 7.1: Graphing and Functions Point slope and slope intercept including graphing</li> </ul>	Khan Academy - <a href="#">Graph from slope – intercept form</a>
	7 9/17 – 9/21	<ul style="list-style-type: none"> <li>Standard form including graphing</li> <li>Manipulating the three forms</li> <li>Section 7.1 Linear Function real world applications</li> </ul>	Khan Academy - <a href="#">Intro to linear equation standard form</a>
	8 9/24 – 9/28	<ul style="list-style-type: none"> <li>Section 7.2: Linear Equations and Their Graphs</li> <li>Section 7.2 Linear Function real world application</li> </ul>	Khan Academy - <a href="#">Graphs of linear equations</a>
	9 10/1 – 10/5	<ul style="list-style-type: none"> <li>Domain and range with set and interval notation (linear and non-linear)</li> <li>Section 7.4: Graphing and shading one inequality</li> </ul>	Khan Academy - <a href="#">Two-variable inequalities from their graphs</a>
	10 10/8 – 10/12	<ul style="list-style-type: none"> <li>Section 7.4: Graphing and shading one inequality</li> <li>Review</li> <li>Unit 3 Test</li> </ul>	

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Quarter 2 Oct 17 – Dec 21	1 10/16 – 10/19	Unit 4 Polynomials <ul style="list-style-type: none"> <li>• Intro to Polynomials</li> <li>• Add Polynomials</li> <li>• Subtract Polynomials</li> </ul>	Khan Academy - <a href="#">Overview of Polynomial operations</a> Khan Academy - <a href="#">Simplifying polynomials</a> Khan Academy - <a href="#">Adding Polynomials</a>
	2 10/22 – 10/26	<ul style="list-style-type: none"> <li>• Review add/subtract polynomials</li> <li>• Review, Quiz</li> <li>• Multiplying Polynomials</li> </ul>	Khan Academy - <a href="#">Multiplying binomials by polynomials</a>
	3 10/29 – 11/2	<ul style="list-style-type: none"> <li>• Review PEMDAS (order of operations)</li> <li>• Evaluate polynomials</li> <li>• Word Problems with polynomial expressions - Perimeter</li> </ul>	Khan Academy - <a href="#">Evaluating and expression with one variable Academy</a>
	4 11/5 – 11/8	<ul style="list-style-type: none"> <li>• Word Problems with polynomial expressions</li> <li>• Review</li> <li>• Test Unit 4</li> </ul>	
	5 11/9 – 11/16	Unit 5 - Quadratics <ul style="list-style-type: none"> <li>• GCF</li> <li>• Factoring when <math>a = 1</math></li> <li>• Factoring when <math>a \neq 1</math> with grouping</li> <li>• Special cases (difference of two squares)</li> <li>• Quiz</li> </ul>	Khan Academy - <a href="#">Quadratic equations and functions</a> Khan Academy - <a href="#">Solve Quadratics by Factoring</a> Khan Academy - <a href="#">Solve Quadratics by Grouping</a> Khan Academy - <a href="#">Difference of Squares</a>
	6 11/19 – 11/20	<ul style="list-style-type: none"> <li>• Zero Product property</li> <li>• Solving by Factoring</li> </ul>	Khan Academy - <a href="#">Zero Product Property</a>
	7 11/26 – 11/30	<ul style="list-style-type: none"> <li>• Solving by factoring</li> <li>• Solving by square root – simplify radical expressions</li> <li>• Quadratic Formula</li> </ul>	Khan Academy - <a href="#">Solve by Square Root</a> Khan Academy - <a href="#">Quadratic Formula</a>
	8 12/3 – 12/7	<ul style="list-style-type: none"> <li>• Quadratic Formula</li> <li>• Review</li> <li>• Unit 5 Test</li> </ul>	
	9 12/10 – 12/17	<ul style="list-style-type: none"> <li>• Semester Standards Review</li> </ul>	

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2018 – 2019

	10 12/18 – 12/21	<ul style="list-style-type: none"><li>• District Exams</li></ul>	
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Quarter 3 Jan 8 – Mar 15	1 1/7 – 1/11	<ul style="list-style-type: none"> <li>Review graphing (7.1 and 7.2)</li> </ul>	
	2 1/14 – 1/18	Chapter 7 (Unit 6)– Algebra: Graphs, Functions, and Linear Systems <ul style="list-style-type: none"> <li>Section 7.3: Systems of Linear Equations in Two Variables By Graphing</li> <li>By Substitution</li> </ul>	Khan Academy - <a href="#">Solving Systems of Equations</a> Khan Academy - <a href="#">Equivalent systems of Equations</a>
	3 1/22 – 1/25	<ul style="list-style-type: none"> <li>By Substitution</li> <li>Section 7.3: Systems of Linear Equations in Two Variables By Elimination</li> <li>Section 7.4 Systems of Linear Inequalities in two variables</li> </ul>	Khan Academy - <a href="#">Constraints by Equations or Inequalities</a> Khan Academy - <a href="#">Intersecting Functions</a> Khan Academy - <a href="#">Systems of Linear Inequalities</a>
	4 1/28 – 2/1	<ul style="list-style-type: none"> <li>Review Unit 6</li> <li>Test Unit 6</li> </ul> Unit 7: Basic Geometry and Constructions <ul style="list-style-type: none"> <li>Points, Lines, Planes and Angles (Chapter 10.1)</li> <li>Identify Parallel and Perpendicular Lines</li> </ul>	S.O.S. Math - <a href="#">Systems of Equations</a> Purplemath - <a href="#">Systems of Equations</a> Khan Academy - <a href="#">Geometric Definitions</a> Math Antics - <a href="#">Points, Lines &amp; Planes</a> Khan Academy - <a href="#">Parallel and Perpendicular</a>
	5 2/4 – 2/8	<ul style="list-style-type: none"> <li>Identify Parallel and Perpendicular Lines</li> <li>Basic constructions</li> </ul>	Khan Academy - <a href="#">Constructions</a> Khan Academy - <a href="#">Constructions in a Circle</a> <a href="#">Construction Reference</a>
	6 2/11 – 2/14	<ul style="list-style-type: none"> <li>Review Unit 7</li> <li>Test Unit 7</li> </ul> Unit 8 - Transformations <ul style="list-style-type: none"> <li>Transformations Vocabulary</li> <li>Translations</li> </ul>	Khan Academy - <a href="#">Translations</a> Khan Academy - <a href="#">Rigid Transformations</a>
	7 2/19 – 2/22	<ul style="list-style-type: none"> <li>Reflections</li> <li>Rotations</li> <li>Reflectional and Rotational Symmetry</li> </ul>	Khan Academy - <a href="#">Reflections</a> Khan Academy - <a href="#">Rotations</a> Khan Academy - <a href="#">Symmetry of Two-Dimensional Shapes</a>
	8 2/25 – 3/1	<ul style="list-style-type: none"> <li>Dilations</li> <li>Review Unit 8</li> <li>Test Unit 8</li> </ul> Unit 9: Similarity and Congruence <ul style="list-style-type: none"> <li>Definition of Similarity</li> </ul>	Khan Academy - <a href="#">Dilations</a> Khan Academy - <a href="#">Similarity and Transformations</a>
	9 3/4 – 3/8	<ul style="list-style-type: none"> <li>AA Similarity</li> <li>Finding missing angles and sides</li> </ul>	Khan Academy - <a href="#">Similarity From Corresponding Parts</a> Khan Academy - <a href="#">Similar Triangle Using AA</a>

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		<ul style="list-style-type: none"> <li>Review, Quiz Unit 9</li> </ul>	Khan Academy - <a href="#">Solving Similar Triangles</a> Khan Academy - <a href="#">Solving Problems with Similar and Congruence Triangles</a>
	10 3/11 – 3/14	<ul style="list-style-type: none"> <li>Pythagorean Theorem (10.2)</li> <li>Triangle Sum Theorem (10.2)</li> <li>Review and Test Unit 9</li> </ul>	Khan Academy - <a href="#">Pythagorean Theorem</a> Khan Academy - <a href="#">Triangle Sum Theorem</a> Khan Academy - <a href="#">Practice finding angle measures</a>

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Quarter 4 Mar 19 – May 24	1 3/18 – 3/22	<b>SPRING BREAK – NO SCHOOL</b>	
	2 3/25 – 3/29	Unit 10: Perimeter, Area and Volume <ul style="list-style-type: none"> <li>• Review Perimeter and Area (10.3 &amp; 10.4)</li> <li>• Identifying/Modeling 3D figures and cross sections of solids</li> <li>• Rotation of 2D figures</li> <li>• Review, Quiz</li> </ul>	Khan Academy - <a href="#">Area and perimeter of polygons</a> Khan Academy - <a href="#">Area and circumference of circles</a> Khan Academy - <a href="#">Intro to Solids</a> Online Math Learning - <a href="#">Video of Rotations of 2D Objects</a> Khan Academy - <a href="#">2D Cross-Sections and 3D Objects by Rotation of 2D Objects</a>
	3 4/1 – 4/5	<ul style="list-style-type: none"> <li>• Population Density</li> <li>• Volume of Prisms and Cylinders</li> <li>• Volume of Pyramids and Cones</li> <li>• Volume of Spheres</li> <li>• Solids Applications</li> </ul>	Khan Academy - <a href="#">Surface and Volume Density Word Problems</a> Khan Academy - <a href="#">Volume Word Problems with Cones, Cylinders and Spheres</a>
	4 4/8 – 4/12	<ul style="list-style-type: none"> <li>• Review Unit 10</li> <li>• Test Unit 10</li> </ul> Unit 11: Statistics <ul style="list-style-type: none"> <li>• Measures of Central Tendency (Mean, Median, Mode and Range)</li> <li>• Dot Plots</li> </ul>	Khan Academy - <a href="#">Mean, Median and Mode</a> Khan Academy - <a href="#">Dot Plots</a>
	5 4/15 – 4/18	<ul style="list-style-type: none"> <li>• Box Plots</li> <li>• Normal Distribution</li> <li>• Interpret Shape and Center</li> </ul>	Khan Academy - <a href="#">Box Plots</a> Khan Academy - <a href="#">Normal Distribution</a> Khan Academy - <a href="#">Interpreting and Comparing Data Distributions</a>
	6 4/22 – 4/26	<ul style="list-style-type: none"> <li>• Extreme Data Points</li> <li>• Shape of Distribution</li> <li>• Standard Deviation</li> </ul>	Khan Academy - <a href="#">Standard Deviation</a> Khan Academy - <a href="#">Exploring Standard Deviation</a>
	7 4/29 – 5/3	<ul style="list-style-type: none"> <li>• Estimate population based on standard deviation</li> <li>• Review Unit</li> <li>• Test Unit 11</li> </ul>	Khan Academy - <a href="#">Inferring population mean from sample</a>
	8 5/6 – 5/10	<ul style="list-style-type: none"> <li>• Course Standards Review</li> </ul>	

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	9 5/13 – 5/17	<ul style="list-style-type: none"><li>• Course Standards Review</li></ul>	
	10 5/20 – 5/24	<ul style="list-style-type: none"><li>• Exams</li></ul>	

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