

Please Note:

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Publisher Resource:

Thinking Mathematically, 6th 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

2017 – 2018

	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 10 – Oct 13	1 8/10 - 8/11	Chapter 5 (Unit 1) – Number Theory and the Real Number System <ul style="list-style-type: none"> Section 5.2: The Integers; Order of Operations 	Khan Academy - Order of operations
	2 8/14 – 8/18	<ul style="list-style-type: none"> Section 5.3: The Rational Numbers Quiz Section 5.4: The Irrational Numbers Section 5.5: The Real Numbers and Their Properties; Clock Addition Review and/or Assessment 	Khan Academy - Rational and irrational numbers Khan Academy - Irrational numbers Khan Academy - Arithmetic properties
	3 8/21 – 8/25	Chapter 6 (Unit 2)– Algebra: Equations and Inequalities <ul style="list-style-type: none"> Section 6.1: Algebraic Expressions and Formulas Section 6.2: Linear Equations in One Variable and Proportions 	Khan Academy - Algebraic expressions Khan Academy - Linear equations and inequalities
	4 8/28 – 9/1	<ul style="list-style-type: none"> Section 6.3: Applications of Linear Equations Section 6.4: Linear Inequalities in One Variable 	Khan Academy - One-variable linear inequalities Khan Academy - Two-step equations word problems IXL – Linear inequalities: word problems
	5 9/5 – 9/8	<ul style="list-style-type: none"> Solving Radical Equations Review Unit 2 Test 	Khan Academy - Radical equations and functions Khan Academy - Solving radical equations
	6 9/11 – 9/15	Chapter 7 (Unit 3) – Algebra: Graphs, Equations, and Linear Systems <ul style="list-style-type: none"> Section 7.1: Graphing and Functions Point slope and slope intercept including graphing 	Khan Academy - Graph from slope – intercept form
	7 9/18 – 9/22	<ul style="list-style-type: none"> Standard form including graphing Manipulating the three forms Section 7.1 Linear Function real world applications 	Khan Academy - Intro to linear equation standard form
	8 9/25 – 9/29	<ul style="list-style-type: none"> Section 7.2: Linear Equations and Their Graphs Section 7.2 Linear Function real world application 	Khan Academy - Graphs of linear equations
	9 10/2 – 10/6	<ul style="list-style-type: none"> Domain and range with set and interval notation (linear and non-linear) Section 7.4: Graphing and shading one inequality 	Khan Academy - Two-variable inequalities from their graphs
	10 10/9 – 10/13	<ul style="list-style-type: none"> Section 7.4: Graphing and shading one inequality Review Unit 3 Test 	

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Quarter 2 Oct 17 – Dec 21	1 10/17 – 10/20	Unit 4 Polynomials <ul style="list-style-type: none"> • Intro to Polynomials • Add Polynomials • Subtract Polynomials 	Khan Academy - Overview of Polynomial operations Khan Academy - Simplifying polynomials Khan Academy - Adding Polynomials
	2 10/23 – 10/27	<ul style="list-style-type: none"> • Review add/subtract polynomials • Review, Quiz • Multiplying Polynomials 	Khan Academy - Multiplying binomials by polynomials
	3 10/30 – 11/3	<ul style="list-style-type: none"> • Review PEMDAS (order of operations) • Evaluate polynomials • Word Problems with polynomial expressions - Perimeter 	Khan Academy - Evaluating and expression with one variable Academy
	4 11/6 – 11/9	<ul style="list-style-type: none"> • Word Problems with polynomial expressions • Review • Test Unit 4 	
	5 11/13 – 11/17	Unit 5 - Quadratics <ul style="list-style-type: none"> • GCF • Factoring when $a = 1$ • Factoring when $a \neq 1$ with grouping • Special cases (difference of two squares) • Quiz 	Khan Academy - Quadratic equations and functions Khan Academy - Solve Quadratics by Factoring Khan Academy - Solve Quadratics by Grouping Khan Academy - Difference of Squares
	6 11/20 – 11/21	<ul style="list-style-type: none"> • Zero Product property • Solving by Factoing 	Khan Academy - Zero Product Property
	7 11/27 – 12/1	<ul style="list-style-type: none"> • Solving by factoring • Solving by square root – simplify radical expressions • Quadratic Formula 	Khan Academy - Solve by Square Root Khan Academy - Quadratic Formula
	8 12/4 – 12/8	<ul style="list-style-type: none"> • Quadratic Formula • Review • Unit 5 Test 	
	9 12/11 – 12/15	<ul style="list-style-type: none"> • Semester Review 	

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	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	<ul style="list-style-type: none"> Review graphing (7.1 and 7.2) 	
	2 1/16 – 1/19	Chapter 7 (Unit 6)– Algebra: Graphs, Functions, and Linear Systems <ul style="list-style-type: none"> Section 7.3: Systems of Linear Equations in Two Variables By Graphing By Substitution 	Khan Academy - Solving Systems of Equations Khan Academy - Equivalent systems of Equations
	3 1/22 – 1/26	<ul style="list-style-type: none"> By Substitution Section 7.3: Systems of Linear Equations in Two Variables By Elimination Section 7.4 Systems of Linear Inequalities in two variables 	Khan Academy - Constraints by Equations or Inequalities Khan Academy - Intersecting Functions Khan Academy - Systems of Linear Inequalities
	4 1/30 – 2/2	<ul style="list-style-type: none"> Review Unit 6 Test Unit 6 Unit 7: Basic Geometry and Constructions <ul style="list-style-type: none"> Points, Lines, Planes and Angles (Chapter 10.1) Identify Parallel and Perpendicular Lines 	S.O.S. Math - Systems of Equations Purplemath - Systems of Equations Khan Academy - Geometric Definitions Math Antics - Points, Lines & Planes Khan Academy - Parallel and Perpendicular
	5 2/5 – 2/9	<ul style="list-style-type: none"> Identify Parallel and Perpendicular Lines Basic constructions 	Khan Academy - Constructions Khan Academy - Constructions in a Circle Construction Reference
	6 2/12 – 2/16	<ul style="list-style-type: none"> Review Unit 7 Test Unit 7 Unit 8 - Transformations <ul style="list-style-type: none"> Transformations Vocabulary Translations 	Khan Academy - Translations Khan Academy - Rigid Transformations
	7 2/20 – 2/23	<ul style="list-style-type: none"> Reflections Rotations Reflectional and Rotational Symmetry 	Khan Academy - Reflections Khan Academy - Rotations Khan Academy - Symmetry of Two-Dimensional Shapes
	8 2/26 – 3/2	<ul style="list-style-type: none"> Dilations Review Unit 8 Test Unit 8 Unit 9: Similarity and Congruence <ul style="list-style-type: none"> Definition of Similarity 	Khan Academy - Dilations Khan Academy - Similarity and Transformations
	9 3/5 – 3/9	<ul style="list-style-type: none"> AA Similarity Finding missing angles and sides 	Khan Academy - Similarity From Corresponding Parts Khan Academy - Similar Triangle Using AA

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		<ul style="list-style-type: none"> Review, Quiz Unit 9 	Khan Academy - Solving Similar Triangles Khan Academy - Solving Problems with Similar and Congruence Triangles
	10 3/12 – 3/15	<ul style="list-style-type: none"> Pythagorean Theorem (10.2) Triangle Sum Theorem (10.2) Review and Test Unit 9 	Khan Academy - Pythagorean Theorem Khan Academy - Triangle Sum Theorem Khan Academy - Practice finding angle measures

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Quarter 4 Mar 19 – May 24	1 3/19 – 3/23	Unit 10: Perimeter, Area and Volume <ul style="list-style-type: none"> • Review Perimeter and Area (10.3 & 10.4) • Identifying/Modeling 3D figures and cross sections of solids • Rotation of 2D figures • Review, Quiz 	Khan Academy - Area and perimeter of polygons Khan Academy - Area and circumference of circles Khan Academy - Intro to Solids Online Math Learning - Video of Rotations of 2D Objects Khan Academy - 2D Cross-Sections and 3D Objects by Rotation of 2D Objects
	2 3/26 – 3/30	<ul style="list-style-type: none"> • SPRING BREAK – NO SCHOOL 	
	3 4/2 – 4/6	<ul style="list-style-type: none"> • Population Density • Volume of Prisms and Cylinders • Volume of Pyramids and Cones • Volume of Spheres • Solids Applications 	Khan Academy - Surface and Volume Density Word Problems Khan Academy - Volume Word Problems with Cones, Cylinders and Spheres
	4 4/9 – 4/13	<ul style="list-style-type: none"> • Review Unit 10 • Test Unit 10 Unit 11: Statistics <ul style="list-style-type: none"> • Measures of Central Tendency (Mean, Median, Mode and Range) • Dot Plots 	Khan Academy - Mean, Median and Mode Khan Academy - Dot Plots
	5 4/16 – 4/20	<ul style="list-style-type: none"> • Box Plots • Normal Distribution • Interpret Shape and Center 	Khan Academy - Box Plots Khan Academy - Normal Distribution Khan Academy - Interpreting and Comparing Data Distributions
	6 4/23 – 4/27	<ul style="list-style-type: none"> • Extreme Data Points • Shape of Distribution • Standard Deviation 	Khan Academy - Standard Deviation Khan Academy - Exploring Standard Deviation
	7 4/30 – 5/4	<ul style="list-style-type: none"> • Estimate population based on standard deviation • Review Unit • Test Unit 11 	Khan Academy - Inferring population mean from sample
	8 5/7 – 5/11	<ul style="list-style-type: none"> • Semester 1 Review 	

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	9 5/14 – 5/18	<ul style="list-style-type: none">Semester 2 Review	
	10 5/21 – 5/24	<ul style="list-style-type: none">Exams	

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