

Please Note:

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Publisher Resource:

[Precalculus with Limits](#) (student logins will be provided)

[Videos by Chapter and Section](#)

Other Course Supplemental Resources:

[LarsonPrecalculus.com](#) (videos, pre- and post- tests by chapter)

[Khan Academy Pre-Calculus](#)

[Free Pre-Calculus Math Videos](#)

[IXL Pre-Calculus](#)

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	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 10 – Oct 9	1 8/10 – 8/14	Unit 1 – Chapter 4 – Trigonometric Functions <ul style="list-style-type: none"> • Introductions/Syllabus • Section 4.1 – Radian and Degree Measure • Section 4.1 – Arc Length, Terminal and Coterminal angles • Section 4.3 – Right Triangle Trigonometry • Section 4.2 – Unit Circle 	Radians and Degrees - Khan Academy Special Right Triangles Proof - Khan Academy Deprecated Radians on the Unit Circle - Khan Academy
	2 8/17 – 8/21	Unit 1 – Chapter 4 – Trigonometric Functions <ul style="list-style-type: none"> • Section 4.2 – Unit Circle • Section 4.3 – Identities • Section 4.4 – Trigonometric Functions of Any Angle 	Deprecated Radians on the Unit Circle - Khan Academy Special Right Triangles Proof - Khan Academy
	3 8/24 – 8/28	Unit 1 – Chapter 4 – Trigonometric Functions <ul style="list-style-type: none"> • Section 4.4 – Trigonometric Functions of Any Angle Assessment <ul style="list-style-type: none"> • Section 4.5 – Graphs of Sine and Cosine Functions 	Graph Sinusoidal Functions - Khan Academy
	4 8/31 – 9/4	Unit 1 – Chapter 4 – Trigonometric Functions <ul style="list-style-type: none"> • Section 4.5 – Graphs of Sine and Cosine Functions • Section 4.6 – Graphs of Other Trigonometric Functions 	Graph Sinusoidal Functions - Khan Academy - Graph sinusoidal functions Graph of $y=\tan(x)$ - Khan Academy
	5 9/7 – 9/11	Labor Day Holiday – 9/7 Unit 1 – Chapter 4 – Trigonometric Functions <ul style="list-style-type: none"> • Section 4.7 – Inverse Trigonometric Functions • Section 4.8 – Applications and Models Assessment	Trigonometric Equations and Identities - Khan Academy
	6 9/14 – 9/18	Unit 1 – Chapter 4 – Trigonometric Functions	Trigonometric Equations and Identities - Khan Academy

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		<ul style="list-style-type: none"> Section 4.8 – Applications and Models Assessment	
	7 9/21 – 9/25	Unit 1 – Chapter 4 – Trigonometric Functions <ul style="list-style-type: none"> Section 5.1 – Using Fundamental Identities Section 5.2 – Verifying Trigonometric Identities 	See links for Khan Academy, Sections 4.1 - 4.7
	8 9/28 – 10/2	Unit 2 – Chapter 5 – Analytic Trigonometry <ul style="list-style-type: none"> Section 5.2 – Verifying Trigonometric Identities Section 5.3 – Solving Trigonometric Equations Assessment	Proof of the Sine Angle Addition Identity - Khan Academy
	9 10/5 – 10/9	Unit 2 – Chapter 5 – Analytic Trigonometry <ul style="list-style-type: none"> Section 5.3 – Solving Trigonometric Equations Assessment	Proof of the Cosine Angle Additional Identity - Khan Academy

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Quarter 2 Oct 12 – Dec 18	1 10/12 – 10/16	<ul style="list-style-type: none"> Teacher Planning Day 10/12 PSAT 10/14 <p>Unit 2 – Chapter 5 – Analytic Trigonometry</p> <ul style="list-style-type: none"> Section 5.4 – Sum and Difference Formulas Section 5.5 – Multiple Angle Formulas: Double-Angle and Half-Angle Assessment 	Solving Trigonometric Equations - SOS Math
	2 10/19 – 10/23	<p>Unit 2 – Chapter 5 – Analytic Trigonometry</p> <ul style="list-style-type: none"> Section 5.5 – Multiple Angle Formulas: Double-Angle and Half-Angle Assessment 	Using Trigonometric Addition Identities: Finding Side Length - Khan Academy Using the Cosine Double-Angle Identity - Khan Academy
	3 10/26 – 10/30	<p>Unit 3 – Chapter 6 – Additional Topics in Trigonometry</p> <ul style="list-style-type: none"> Section 6.1 – Law of Sines Section 6.2 – Law of Cosines 	Using the Cosine Double-Angle Identity - Khan Academy
	4 11/2 – 11/6	<p>Unit 3 – Chapter 6 – Additional Topics in Trigonometry</p> <ul style="list-style-type: none"> Section 6.2 – Law of Cosines Assessment Section 6.3 – Vectors in the Plane 	Solving for a Side with the Laws of Sines - Khan Academy
	5 11/9 – 11/13	<ul style="list-style-type: none"> Veterans Day 11/11 <p>Unit 3 – Chapter 6 – Vectors</p> <ul style="list-style-type: none"> Section 6.3 – Vectors in the Plane Section 6.4 – Vectors and Dot Product Assessment 	Solving Triangle Using the Law of Cosines - Khan Academy
	6 11/16 – 11/20	<p>Unit 3– Chapter 6 – Vectors</p> <ul style="list-style-type: none"> Section 6.4 – Vectors and Dot Product Section 6.5 - Trigonometric Form of a Complex Number 	Vector Intro for Linear Algebra - Khan Academy

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	7 11/23 – 11/24	Unit 3 – Chapter 6 – Vectors Assessment <ul style="list-style-type: none"> • Thanksgiving Holiday 11/25 - 11/27 	Vector Dot Product and Vector Length - Khan Academy
	8 11/30 – 12/4	Unit 4– Chapter 8 – Binomial Theorem <ul style="list-style-type: none"> • Section 8.4 – The Binomial Theorem • Review Assessment	Vector Dot Product and Vector Length - Khan Academy
	9 12/7 – 12/11	<ul style="list-style-type: none"> • Review semester content 	
	10 12/14 – 12/18	<ul style="list-style-type: none"> • Review semester content • District exams 	

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Quarter 3 Jan 5 – Mar 11	1 1/5– 1/8	<p>Unit 5 – Chapter 1 – Functions and Their Graphs</p> <ul style="list-style-type: none"> Section 1.2 – Functions Section 1.3 – Graphs of Functions <p>Assessment</p>	<p>Deprecated Domain and Range of Piece-Wise Functions - Khan Academy</p> <p>Shifting and Reflecting Functions - Khan Academy</p>
	2 1/11 – 1/15	<p>Unit 5 – Chapter 1 – Functions and Their Graphs</p> <ul style="list-style-type: none"> Section 1.4 – Shifting, Reflecting, and Stretching Graphs Section 1.5 – Combinations of Functions Section 1.6 – Inverse Functions <p>Assessment</p>	<p>Adding Functions - Khan Academy</p> <p>Verifying Inverse Functions by Composition - Khan Academy</p>
	3 1/18 – 1/22	<ul style="list-style-type: none"> Martin Luther King Jr. Holiday 1/18 <p>Unit 6 – Chapter 2 – Polynomial and Rational Functions</p> <ul style="list-style-type: none"> Section 2.1 – Quadratics <p>Assessment</p>	<p>Vertex and Axis of Symmetry of a Parabola - Khan Academy</p>
	4 1/25 – 1/29	<p>Unit 6 – Chapter 2 – Polynomial and Rational Functions</p> <ul style="list-style-type: none"> Section 2.1 – Quadratics Section 2.2 - Polynomial Functions of Higher Degree Section 2.3 – Real Zeros of Polynomial Functions <p>Assessment</p> <ul style="list-style-type: none"> Teacher Inservice 1/29 	<p>The Parts of Polynomial Expressions - Khan Academy</p> <p>Zeros of Polynomials and Their Graphs - Khan Academy</p>
	5 2/1 – 2/5	<p>Unit 6 – Chapter 2 – Polynomial and Rational Functions</p> <ul style="list-style-type: none"> Section 2.3 – Real Zeros of Polynomial Functions 	<p>Classify Complex Numbers - Khan Academy</p> <p>The Fundamental Theorem of Algebra - Khan Academy</p> <p>Graphing Rational Functions 2 - Khan Academy</p>

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	<ul style="list-style-type: none"> Section 2.4 – Complex Numbers Section 2.5 – The Fundamental Theorem of Algebra 	
6 2/8 – 2/12	<p>Unit 6 – Chapter 2 – Polynomial and Rational Functions</p> <ul style="list-style-type: none"> Section 2.6 – Rational Functions and Asymptotes Section 2.7 – Slant Asymptotes & Graphs of Rational Functions Review <p>Assessment</p>	Graphing Rational Functions 3 - Khan Academy
7 2/15 – 2/19	<p>Presidents Day Holiday 2/15</p> <p>Unit 7 – Chapter 11-Limits</p> <ul style="list-style-type: none"> Section 11.1 – Introduction to Limits Section 11.2 – Techniques for Evaluating Limits 	Intro to Limits - Khan Academy One-Sided Limits from Graphs - Khan Academy
8 2/22 – 2/26	<p>Unit 7 – Chapter 11 – Limits</p> <ul style="list-style-type: none"> Section 11.2 – Techniques for Evaluating Limits Section 11.3 – The Tangent Line Problem Section 11.4 – Limits at Infinity and Limits of Sequences 	Derivative as a Limit - Khan Academy Infinite Limits Introduction - Khan Academy
9 3/1 – 3/5	<p>Unit 7 – Chapter 11 – Limits</p> <ul style="list-style-type: none"> Section 11.3 – The Tangent Line Problem Section 9.1 - Circles <p>Assessment</p>	
10 3/8 – 3/11	<p>Unit 8 – Chapter 9 – Conics</p> <ul style="list-style-type: none"> Section 9.1 – Parabolas Section 9.2 – Ellipses 	Introduction to the Binomial Theorem - Khan Academy

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Quarter 4 Mar 15 – May 25	1 3/15 – 3/19	<ul style="list-style-type: none"> • SPRING BREAK – NO SCHOOL 	
	2 3/22 – 3/26	<p>Unit 8 – Chapter 9 – Conics/Trig. Form of Complex Numbers and Polar Coordinates</p> <ul style="list-style-type: none"> • Section 9.3 – Hyperbolas • Section 9.5 – Polar Coordinates <p>Assessment</p>	<p>Features of a Circle From its Standard Equation - Khan Academy</p> <p>Equation of a Parabola From Focus and Directrix - Khan Academy</p> <p>Foci of an Ellipse - Khan Academy</p>
	3 3/29 – 4/2	<p>Unit 8 – Chapter 9 – Conics</p> <ul style="list-style-type: none"> • Review <p>Assessment</p> <ul style="list-style-type: none"> • Holiday 4/2 	<p>Foci of an Ellipse - Khan Academy</p> <p>Foci of a Hyperbola - Khan Academy</p>
	4 4/5 – 4/9	<p>Unit 9 – Chapter 3 – Exponential and Logarithmic Functions</p> <ul style="list-style-type: none"> • Section 3.1 – Exponential Functions and Their Graphs • Section 3.2 – Logarithmic Functions and Their Graphs 	
	5 4/12 – 4/16	<p>Unit 9 – Chapter 3 – Exponential and Logarithmic Functions</p> <ul style="list-style-type: none"> • Section 3.3 – Properties of Logarithms (change of base only) <p>Assessment</p> <ul style="list-style-type: none"> • Section 3.3 – Properties of Logarithms (complete) 	<p>Exponential and Logarithmic Functions - Khan Academy</p> <p>Properties of Logarithms - Khan Academy</p>
	6 4/19 – 4/23	<p>Unit 9 – Chapter 3 – Exponential and Logarithmic Functions</p> <ul style="list-style-type: none"> • Section 3.4 – Solving Exponential and Logarithmic Equations • Section 3.5 – Exponential and Logarithmic Models 	<p>Properties of Logarithms - Khan Academy</p>

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	7 4/26 – 4/30	<p>Unit 9 – Chapter 3 – Exponential and Logarithmic Functions</p> <p>Assessment</p> <ul style="list-style-type: none"> • Course Review and AP Calculus Preparation 	Exponential Logarithmic Functions - Khan Academy
	8 5/3 – 5/7	<ul style="list-style-type: none"> • Course Review and AP Calculus Preparation 	
	9 5/10 – 5/14	<ul style="list-style-type: none"> • Course Review and AP Calculus Preparation 	
	10 5/17 – 5/21	<ul style="list-style-type: none"> • District Exams 	
	11 5/24 – 5/25	<ul style="list-style-type: none"> • District Exams 	

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