

**Please Note:**

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**Publisher Resource:**

McGraw Hill – [Cinch Learning](#) (use student Active Directory)

**Other Course Supplemental Resources:**

[Math Nation](#) (use student Active Directory)

[Algebra 2](#) - Khan Academy

[IXL Math – High School Standards](#)

**Standards Practice:** (Although the Algebra 2 FSA EOC will not be administered, these links help students practice the rigor of the course standards and how they will be assessed.)

[Algebra 2 FSA EOC Mathematics Computer-Based PRACTICE TEST](#)

[Algebra 2 FSA EOC Computer-Based Practice Test Answer Key](#)

[Mathematics Practice Tests – PARCC \(Partnership for Assessment of Readiness for College and Careers\)](#)

[Mathematics Answer Keys – PARCC](#)

[Additional Practice of Course Standards](#)

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	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 10 – Oct 14	1 8/10 - 8/11	<ul style="list-style-type: none"> <li>• Pre-test</li> <li>• <b>Unit 1 – Sequences and Series</b></li> <li>• <b>Chapter 10 Sequences and Series</b></li> <li>• Lesson 10-1 Sequences and Functions</li> </ul>	Lesson 10-1 – <a href="#">Khan Academy</a> Lesson 10-2 – <a href="#">Khan Academy</a>
	2 8/14 – 8/18	<ul style="list-style-type: none"> <li>• <b>Unit 1 A – Sequences and Series</b></li> <li>• <b>Chapter 10 Sequences and Series</b></li> <li>• Lesson 10-2 Arithmetic Sequences and Series</li> <li>• Lesson 10-5 Recursion and Iteration (Arithmetic Only)</li> <li>• Review</li> <li>• Assessment</li> <li>• Lesson 2-3 Rate of Change and Slope and 2-4 Writing Linear Equations</li> </ul>	Lesson 10-5 - <a href="#">Khan Academy</a>  Lesson 2-3 Rate of Change <a href="#">Khan Academy</a> Lesson 2-4 Linear Equations <a href="#">Khan Academy</a>
	3 8/22 – 8/25	<ul style="list-style-type: none"> <li>• <b>Unit 2 Linear (Review) Unit</b></li> <li>• <b>Chapter 2 Linear Relations and Functions</b></li> <li>• Lesson 2-6 Special Functions</li> <li>• Lesson 2-7 Parent Functions and Transformations</li> <li>• Lesson 2-8 Graphing Linear and Absolute Value Inequalities</li> <li>• Assessment</li> </ul>	Lesson 2-6 <a href="#">Khan Academy</a> Lesson 2-7 <a href="#">Virtual Nerd</a> Lesson 2-8 <a href="#">Khan Academy</a>
	4 8/28 – 9/1	<ul style="list-style-type: none"> <li>• <b>Unit 2 Linear (Review) Unit</b></li> <li>• <b>Chapter 2 Linear Relations and Functions</b></li> <li>• Lesson 3-1 Solving Systems of Equations</li> <li>• Lesson 3-2 Systems of Inequalities</li> <li>• Lesson 3-4 Systems of Equations in Three Variables</li> </ul>	Lesson 3-1 <a href="#">Khan Academy</a> Lesson 3-2 <a href="#">Khan Academy</a> Lesson 3-4 <a href="#">Khan Academy</a>
	5 9/5 – 9/8	<ul style="list-style-type: none"> <li>• <b>Unit 2 Linear (Review) Unit</b></li> <li>• <b>Unit 3 Quadratics</b></li> <li>• <b>Chapter 3 Systems of Equations and Inequalities</b></li> <li>• Review</li> <li>• Assessment</li> <li>• Lesson 4-1 Graphing Quadratic Functions</li> <li>• Lesson 4-2 Solving Quadratics by Graphing</li> </ul>	Lesson 4-1 <a href="#">YouTube</a> Lesson 4-2 <a href="#">Khan Academy</a>
	6 9/11 – 9/15	<ul style="list-style-type: none"> <li>• <b>Unit 3 Quadratics</b></li> <li>• <b>Chapter 4 Quadratic Functions and Relations</b></li> <li>• Lesson 4-3 Solving Equations by Factoring</li> <li>• Lesson 4-4 Complex Numbers</li> <li>• Assessment</li> </ul>	Lesson 4-3 <a href="#">Khan Academy</a> Lesson 4-4 <a href="#">Khan Academy</a>
	7 9/18 – 9/22	<ul style="list-style-type: none"> <li>• <b>Unit 3 Quadratics</b></li> <li>• <b>Chapter 4 Quadratic Functions and Relations</b></li> </ul>	

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# Algebra 2 Honors

2017 – 2018

		<ul style="list-style-type: none"> <li>• Lesson 4-5 Completing the Square</li> <li>• Lesson 4-6 The Quadratic Formula and the Discriminant</li> <li>• Review</li> <li>• Assessment</li> </ul>	Lesson 4-5 <a href="#">Khan Academy</a> Lesson 4-6 <a href="#">Khan Academy</a>
8 9/25 – 9/29	<ul style="list-style-type: none"> <li>• <b>Unit 3 Quadratics</b></li> <li>• <b>Chapter 4 Quadratic Functions and Relations</b></li> <li>• Lesson 4-7 Transformations of Quadratic Graphs</li> <li>• Lesson 4-8 Quadratic Inequalities</li> <li>• <b>Chapter 9 Conic Sections</b></li> <li>• Lesson 9-2 Parabolas</li> <li>• Lesson 9-7 Solving Linear-Nonlinear Systems</li> </ul>	Lesson 4-7 <a href="#">YouTube</a> Lesson 4-8 <a href="#">Khan Academy</a>  Lesson 9-2 <a href="#">Khan Academy</a>	
9 10/2 – 10/6	<ul style="list-style-type: none"> <li>• <b>Unit 3 Quadratics</b></li> <li>• <b>Chapter 4 Quadratic Functions and Relations</b></li> <li>• Lesson 9-7 Solving Linear-Nonlinear Systems</li> <li>• Review</li> <li>• Assessment on Unit 3</li> <li>• Lesson 5-1 Operations with Polynomials</li> <li>• Lesson 5-2 Dividing Polynomials</li> </ul>	Lesson 9-7 <a href="#">Khan Academy</a>  Lesson 5-1 <a href="#">Khan Academy</a> Lesson 5-2 <a href="#">Khan Academy</a>	
10 10/9 – 10/13	<ul style="list-style-type: none"> <li>• <b>Chapter 5 Polynomials and Polynomial Functions</b></li> <li>• Lesson 5-2 Dividing Polynomials</li> <li>• Lesson 5-3 Polynomial Functions</li> <li>• Lesson 5-4 Analyzing Graphs of Polynomial Functions</li> <li>• Quarter Review and Assessment</li> </ul>	Lesson 5-3 <a href="#">Khan Academy</a> Lesson 5-4 <a href="#">Khan Academy</a>	

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	Week	Major Concepts / Topics	Possible Resources
Quarter 2 Oct 18 – Dec 21	1 10/17 – 10/20	<b>Unit 4 Polynomials</b> <ul style="list-style-type: none"> <li>• <b>Chapter 5 Polynomials and Polynomial Functions</b></li> <li>• Lesson 5-5 Solving Polynomial Equations</li> <li>• Lesson 5-6 The Remainder and Factor Theorems</li> <li>• Lesson 5-7 Roots and Zeros</li> </ul>	Lesson 5-5 <a href="#">Khan Academy</a> Lesson 5-6 <a href="#">Khan Academy</a> Lesson 5-7 <a href="#">YouTube</a>
	2 10/23 – 10/27	<b>Unit 4 Polynomials</b> <ul style="list-style-type: none"> <li>• <b>Chapter 8 Rational Functions and Relations</b></li> <li>• Lesson 5-8 Rational Zero Theorem</li> <li>• Pythagorean Triples</li> <li>• Review</li> <li>• Assessments</li> <li>• Lesson 8-1 Multiplying and Dividing Rationals</li> </ul>	Lesson 5-8 <a href="#">YouTube</a> Lesson Pythagorean Triples <a href="#">Pythagorean Triples</a>  Lesson 8-1 <a href="#">Khan Academy</a>
	3 10/30 – 11/3	<b>Unit 5 Rationals</b> <ul style="list-style-type: none"> <li>• <b>Chapter 8 Rational Functions and Relations</b></li> <li>• Lesson 8-1 Multiplying and Dividing Rationals</li> <li>• Lesson 8-2 Adding and Subtracting Rationals</li> <li>• Lesson 8-3 Graphing Reciprocal Functions</li> </ul>	Lesson 8-1 <a href="#">Khan Academy</a> Lesson 8-2 <a href="#">Khan Academy</a> Lesson 8-3 <a href="#">YouTube</a>
	4 11/6 – 11/10	<b>Unit 5 Rationals</b> <ul style="list-style-type: none"> <li>• <b>Chapter 8 Rational Functions and Relations</b></li> <li>• Assess</li> <li>• Lesson 8-4 Graphing Rational Functions</li> <li>• Lesson 8-6 Solving Rational Equations (no Inequalities)</li> </ul>	Lesson 8-4 <a href="#">Khan Academy</a> Lesson 8-6 <a href="#">Khan Academy</a>
	5 11/13 – 11/17	<b>Unit 5 Rationals</b> <ul style="list-style-type: none"> <li>• Review</li> <li>• Assessment</li> </ul>	
	6 11/20 – 11/21	<b>Unit 5 Rationals</b> <ul style="list-style-type: none"> <li>• Project Based Learning</li> </ul>	
	7 11/27 – 12/1	<b>Unit 6 Radical Functions</b> <ul style="list-style-type: none"> <li>• <b>Chapter 6 Inverses and Radical Functions and Relations</b></li> <li>• Lesson 6-1 Operations on Functions</li> <li>• Lesson 6-2 Inverse Functions and Relations</li> <li>• Lesson 6-3 Square Root Functions</li> <li>• Lesson 6-4 nth Roots</li> </ul>	Lesson 6-1 <a href="#">YouTube</a> Lesson 6-2 <a href="#">Khan Academy</a> Lesson 6-3 <a href="#">Khan Academy</a> Lesson 6-4 <a href="#">Khan Academy</a>
	9 12/11 – 12/15	<ul style="list-style-type: none"> <li>• Review</li> <li>• Assess</li> </ul>	

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# Algebra 2 Honors

2017 – 2018

		<ul style="list-style-type: none"><li>Semester Review</li></ul>	
	10 12/18 – 12/21	<ul style="list-style-type: none"><li>District Exams</li></ul>	

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# Algebra 2 Honors

2017 – 2018

	Week	Major Concepts / Topics	Possible Resources
Quarter 3 Jan 5 – Mar 10	1 1/8 – 1/12	<b>Unit 7 Exponents and Logarithms</b> <ul style="list-style-type: none"> <li>• <b>Chapter 7 Exponential and Logarithmic Functions and Relations</b></li> <li>• Lesson 7-1 Graphing Exponential Functions</li> <li>• Lesson 7-2 Solving Exponential Equations</li> <li>• Lesson 7-3 Solving Exponential Functions and Logs</li> <li>• Assessment</li> </ul>	Lesson 7-1 <a href="#">Khan Academy</a> Lesson 7-2 <a href="#">Khan Academy</a> Lesson 7-3 <a href="#">Khan Academy</a>
	2 1/16 – 1/19	<b>Unit 7 Exponents and Logarithms</b> <ul style="list-style-type: none"> <li>• <b>Chapter 7 Exponential and Logarithmic Functions and Relations</b></li> <li>• Lesson 7-4 Solving Logarithmic Equations</li> <li>• Lesson 7-5 Properties of Logs</li> <li>• Lesson 7-6 Common Logs</li> <li>• Lesson 7-7 The Natural Base, <math>e</math></li> </ul>	Lesson 7-4 <a href="#">Khan Academy</a> Lesson 7-5 <a href="#">Khan Academy</a> Lesson 7-6 <a href="#">Khan Academy</a> Lesson 7-7 <a href="#">Khan Academy</a>
	3 1/22 – 1/26	<b>Unit 7 Exponents and Logarithms</b> <ul style="list-style-type: none"> <li>• <b>Chapter 7 Exponential and Logarithmic Functions and Relations</b></li> <li>• Lesson 7-8 Using Exponential and Logarithmic Functions</li> <li>• Review</li> <li>• Assessment</li> </ul>	Lesson 7-8 <a href="#">YouTube</a>
	4 1/30 – 2/2	<b>Unit 1 B – Sequences and Series</b> <ul style="list-style-type: none"> <li>• <b>Chapter 10 Sequences and Series</b></li> <li>• Lesson 10-1 Review</li> <li>• Lesson 10-3 Geometric Sequences</li> <li>• Lesson 10-3 Geometric Series</li> <li>• Lesson 10-4 Infinite Geometric Series</li> <li>• Lesson 10-5 Recursion and Iteration (Geometric)</li> </ul>	Lesson 10-3 – <a href="#">Khan Academy</a> Lesson 10-4 – <a href="#">Khan Academy</a> Lesson 10-5 - <a href="#">Khan Academy</a>
	5 2/5 – 2/9	<b>Unit 1B Assessment &amp; Unit 7 Exponents and Logarithms</b> <ul style="list-style-type: none"> <li>• <b>Chapter 7 Exponential and Logarithmic Functions and Relations</b></li> <li>• Review</li> <li>• Assessments</li> <li>• <b>Chapter 12 Trigonometric Functions</b></li> <li>• Lesson 12-1 Trig. Functions in Right Triangles</li> <li>• Lesson 12-2 Angles and Angle Measures</li> </ul>	Lesson 12-1 <a href="#">Khan Academy</a> Lesson 12-2 <a href="#">Khan Academy</a>
	6 2/12 – 2/16	<b>Unit 8 Trigonometry</b> <ul style="list-style-type: none"> <li>• <b>Chapter 12 Trigonometric Functions</b></li> <li>• Lesson 12-3 Trig. Functions of General Angles</li> <li>• Unit Circle</li> <li>• Lesson 12-6 Circles and Periodic Functions</li> <li>• Assess</li> </ul>	Lesson 12-3 <a href="#">Khan Academy</a> Lesson 12-6 <a href="#">Khan Academy</a> Lesson 12-7 <a href="#">Khan Academy</a>

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# Algebra 2 Honors

2017 – 2018

		<ul style="list-style-type: none"> <li>Lesson 12-7 Graphing Trig. Functions</li> </ul>	
7 2/20 – 2/23	<b>Unit 8 Trigonometry</b> <ul style="list-style-type: none"> <li><b>Chapter 12 Trigonometric Functions</b></li> <li>Lesson 12-8 Translations in Trig. Functions</li> <li><b>Chapter 13 Trigonometric identities and Equations</b></li> <li>Lesson 13-1 Trig. Identities</li> <li>Review</li> </ul>	Lesson 12-8 <a href="#">Khan Academy</a>  Lesson 13-1 <a href="#">Khan Academy</a>	
8 2/26 – 3/2	<b>Unit 8 Trigonometry &amp; Unit 9 Probability</b> <ul style="list-style-type: none"> <li>Assessment</li> <li><b>Chapter 0 Preparing for Advanced Algebra</b></li> <li>Lesson 0-4 Counting Techniques (Fundamental Counting Principle only)</li> <li>Lesson 0-5 Adding Probabilities (Experimental/Theoretical only)</li> <li>Lesson Sets &amp; Venn diagrams</li> <li>Lesson 0-5 Adding Probabilities</li> <li>Lesson 0-6 Multiplying Probabilities</li> </ul>	Lesson 0-4 <a href="#">Virtual Nerd</a> Lesson 0-5 <a href="#">Khan Academy</a> Lesson 0-6 <a href="#">Khan Academy</a> <a href="#">Venn Diagrams</a>	
9 3/5 – 3/9	<b>Unit 9 Statistics</b> <ul style="list-style-type: none"> <li><b>Chapter 0 Preparing for Advanced Algebra</b></li> <li>Lesson Two- Way tables</li> <li>Review</li> <li>Assessment</li> <li><b>Unit 10 Statistics</b></li> <li>Lesson 11.1 Designing a Study</li> <li>Lesson 0-9 Measures of Central Tendency</li> </ul>	Lesson 0-9 <a href="#">Khan Academy</a>	
10 3/12 – 3/15	<b>Unit 10 Statistics</b> <ul style="list-style-type: none"> <li><b>Chapter 11 Statistics and Probability</b></li> <li>Lesson 11-2 Distribution of Data</li> <li>Assess</li> <li>Lesson 11-3 Probability Distribution</li> </ul>	Lesson 11-2 <a href="#">YouTube</a> Lesson 11-3 <a href="#">Khan Academy</a>	

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2017 – 2018

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Quarter 4 Mar 21 – May 24	1 3/19 – 3/23	<b>Unit 9 Statistics</b> <ul style="list-style-type: none"> <li>• <b>Chapter 11 Statistics and Probability</b></li> <li>• Lesson 11-3 Probability Distribution cont.</li> <li>• Lesson 11-5 Normal Distribution</li> <li>• Lesson 11-6 Confidence Interval and Hypothesis Testing</li> <li>• Review</li> <li>• Assessment</li> </ul>	Lesson 11-3 <a href="#">Khan Academy</a> Lesson 11-5 <a href="#">Khan Academy</a>
	2 4/2 – 4/6	<ul style="list-style-type: none"> <li>• <b>EOC Review</b></li> </ul>	
	3 4/9 – 4/13	<ul style="list-style-type: none"> <li>• <b>EOC Review</b></li> </ul>	
	4 4/16 – 4/20	<ul style="list-style-type: none"> <li>• EOC's Begin</li> <li>• Course Review</li> </ul>	
	5 4/23 – 4/27	<b>Unit 11 Honors Topics</b> <ul style="list-style-type: none"> <li>• <b>Chapter 0 Preparing for Advanced Algebra</b></li> <li>• Lesson 0-4 Permutations and Combinations</li> <li>• <b>Chapter 10 Sequences and Series</b></li> <li>• Lesson 10-6 Binomial Theorem, Binomial Expansion, Pascal's Triangle</li> <li>• Review</li> </ul>	Lesson 0-4 <a href="#">Khan Academy</a>  Lesson 10-6 <a href="#">Khan Academy</a>
	6 4/30 – 5/4	<b>Unit 11 Honors Topics</b> <ul style="list-style-type: none"> <li>• Assessment</li> </ul> <b>Unit 12 Conics</b> <ul style="list-style-type: none"> <li>• <b>Chapter 9 Conic Sections</b></li> <li>• Lesson 9.1 Midpoint and Distance Formulas</li> <li>• Lesson 9.2 Parabolas</li> <li>• Lesson 9.3 Circles</li> </ul>	
	7 5/7 – 5/11	<b>Unit 12 Conics</b> <ul style="list-style-type: none"> <li>• <b>Chapter 9 Conic Sections</b></li> <li>• Lesson 9.4 Ellipses</li> <li>• Lesson 9.5 Hyperbola</li> <li>• Review</li> <li>• Assessment</li> </ul>	
	8 5/14 – 5/18	<ul style="list-style-type: none"> <li>• Review Material for Final Exam</li> </ul>	

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# Algebra 2 Honors

2017 – 2018

	9 5/21 – 5/24	<ul style="list-style-type: none"><li>• Final Exam</li></ul>	
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