

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

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Algebra 2 Honors

2017 – 2018

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

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

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Algebra 2 Honors

2017 – 2018

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

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

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Algebra 2 Honors

2017 – 2018

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

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Algebra 2 Honors

2017 – 2018

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

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