

Please Note:

All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course are best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

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.)

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

[Additional Practice of Course Standards](#)

All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 10 – Oct 12	1 8/10	<ul style="list-style-type: none"> Pre-test 	
	2 8/13 – 8/17	<ul style="list-style-type: none"> Unit 1 Linear Functions Review (with Arithmetic Sequences and Series) Lesson 2-3 Rate of Change and Slope and 2-4 Writing Linear Equations and Inequalities Graphing Linear Equations and Inequalities Lesson 10-1 Sequences and Functions 	Lesson 2-3 Rate of Change Khan Academy Lesson 2-4 Linear Equations Khan Academy Lesson 10-1 – Khan Academy
	3 8/20 – 8/24	<ul style="list-style-type: none"> Lesson 10-2 Arithmetic Sequences and Series Review Assess Lesson 3-1 Solving Systems of Equations 	Lesson 10-2 – Khan Academy Lesson 3-1 Khan Academy
	4 8/27 – 8/31	<ul style="list-style-type: none"> Lesson 3-1 Solving Systems of Equations Lesson 3-2 Systems of Inequalities Lesson 3-4 Systems of Equations in Three Variables Lesson 2-6 Special Functions 	Lesson 3-1 Khan Academy Lesson 3-2 Khan Academy Lesson 3-4 Khan Academy Lesson 2-6 Khan Academy
	5 9/3 – 9/7	<ul style="list-style-type: none"> Labor Day Holiday 9/3 Lesson 2-6 Special Functions Lesson 2-7 Parent Functions and Transformations Review Assess 	Lesson 2-6 Khan Academy Lesson 2-7 Virtual Nerd
	6 9/10 – 9/14	<ul style="list-style-type: none"> Unit 2 Quadratic Functions Lesson 4-1 Graphing Quadratic Functions Lesson 4-2 Solving Quadratics by Graphing Lesson 4-3 Solving Equations by Factoring 	Lesson 4-1 YouTube Lesson 4-2 Khan Academy Lesson 4-3 Khan Academy
	7 9/17 – 9/21	<ul style="list-style-type: none"> Lesson 4-4 Complex Numbers Assessment Lesson 4-5 Completing the Square 	Lesson 4-4 Khan Academy Lesson 4-5 Khan Academy
	8 9/24 – 9/28	<ul style="list-style-type: none"> Lesson 4-6 The Quadratic Formula and the Discriminant Review 	Lesson 4-6 Khan Academy

All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

		<ul style="list-style-type: none"> • Assessment • Lesson 4-7 Transformations of Quadratic Graphs • Lesson 4-8 Quadratic Inequalities 	Lesson 4-7 YouTube Lesson 4-8 Khan Academy
	9 10/1 – 10/5	<ul style="list-style-type: none"> • Lesson 9-7 Solving Linear-Nonlinear Systems • Lesson 9-2 Parabolas • Review 	Lesson 9-7 Khan Academy Lesson 9-2 Khan Academy
	10 10/8 – 10/12	<ul style="list-style-type: none"> • Test • Unit 3 Polynomial Functions • Lesson 5-1 Operations with Polynomials (INCLUDE CLOSURE!) • PSAT 10/10 • Lesson 5-2 Dividing Polynomials 	Lesson 5-1 Khan Academy Lesson 5-2 Khan Academy

All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

	Week	Major Concepts / Topics	Possible Resources
Quarter 2 Oct 16 – Dec 21	1 10/16 – 10/19	<ul style="list-style-type: none"> Teacher Planning 10/15 Lesson 5-3 Polynomial Functions Lesson 5-4 Analyzing Graphs of Polynomial Functions Assess (INCLUDE CLOSURE!!) Lesson 5-5 Solving Polynomial Equations 	Lesson 5-3 Khan Academy Lesson 5-4 Khan Academy Lesson 5-5 Khan Academy
	2 10/22 – 10/26	<ul style="list-style-type: none"> Lesson 5-5 Solving Polynomial Equations Lesson 5-6 The Remainder and Factor Theorems Lesson 5-7 Roots and Zeros Lesson 5-8 Rational Zero Theorem 	Lesson 5-5 Khan Academy Lesson 5-6 Khan Academy Lesson 5-7 YouTube Lesson 5-8 YouTube Lesson Pythagorean Triples Pythagorean Triples
	3 10/29 – 11/2	<ul style="list-style-type: none"> Review Assess Unit 4 Rational Functions Lesson 8-1 Multiplying and Dividing Rationals Lesson 8-2 Adding and Subtracting Rationals 	Lesson 8-1 Khan Academy Lesson 8-2 Khan Academy
	4 11/5 – 11/9	<ul style="list-style-type: none"> Lesson 8-3 Graphing Reciprocal Functions Assess Lesson 8-4 Graphing Rational Functions Lesson 8-6 Solving Rational Equations (no Inequalities) 	Lesson 8-3 YouTube Lesson 8-4 Khan Academy Lesson 8-6 Khan Academy
	5 11/12 – 11/16	<ul style="list-style-type: none"> Veterans Day Holiday 11/2 Lesson 8-6 Solving Rational Equations (no Inequalities) Review Assess 	Lesson 8-6 Khan Academy
	6 11/19 – 11/20	<ul style="list-style-type: none"> Standards Review 	
	7 11/26 – 11/30	<ul style="list-style-type: none"> Unit 5 Radical Functions Lesson 6-1 Operations on Functions Lesson 6-2 Inverse Functions and Relations Lesson 6-3 Square Root Functions (include cube root) 	Lesson 6-1 YouTube Lesson 6-2 Khan Academy Lesson 6-3 Khan Academy
	8	<ul style="list-style-type: none"> Lesson 6-3 Square Root Functions 	Lesson 6-3 Khan Academy

All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

	12/3 – 12/7	<ul style="list-style-type: none"> • Lesson 6-4 nth Roots • Review • Assess 	Lesson 6-4 Khan Academy
	9 12/10 – 12/14	<ul style="list-style-type: none"> • Standards Review 	
	10 12/17 – 12/21	<ul style="list-style-type: none"> • District Exams 	

All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

	Week	Major Concepts / Topics	Possible Resources
Quarter 3 Jan 7 – Mar 14	1 1/7– 1/11	<ul style="list-style-type: none"> • Unit 6 Exponential and Logarithmic Functions (including Geometric Sequences and Series) • Lesson 7-1 Graphing Exponential Functions • Lesson 7-2 Solving Exponential Equations • Lesson 7-3 Solving Exponential Functions and Logs • Assess 	Lesson 7-1 Khan Academy Lesson 7-2 Khan Academy Lesson 7-3 Khan Academy
	2 1/14 – 1/18	<ul style="list-style-type: none"> • Lesson 7-4 Solving Logarithmic Equations • Lesson 7-5 Properties of Logs • Lesson 7-6 Common Logs 	Lesson 7-4 Khan Academy Lesson 7-5 Khan Academy Lesson 7-6 Khan Academy
	3 1/21 – 1/25	<ul style="list-style-type: none"> • Martin Luther King, Jr. Holiday 1/21 • Lesson 7-7 The Natural Base, e • Lesson 7-8 Using Exponential and Logarithmic Functions • Review 	Lesson 7-7 Khan Academy Lesson 7-8 YouTube
	4 1/28 – 2/1	<ul style="list-style-type: none"> • Review • Assess • Lesson 10-1 Review • Lesson 10-3 Geometric Sequences • Lesson 10-3 Geometric Series 	Lesson 10-3 – Khan Academy
	5 2/4 – 2/8	<ul style="list-style-type: none"> • Lesson 10-4 Infinite Geometric Series • Lesson 10-5 Recursion and Iteration (Geometric) • Review • Assess • Unit 7 Trigonometric Functions • Lesson 12-1 Trig. Functions in Right Triangles 	Lesson 10-4 – Khan Academy Lesson 10-5 - Khan Academy Lesson 12-1 Khan Academy
	6 2/11 – 2/15	<ul style="list-style-type: none"> • Lesson 12-2 Angles and Angle Measures • Lesson 12-3 Trig. Functions of General Angles • Assess • Teacher Inservice 2/15 	Lesson 12-2 Khan Academy Lesson 12-3 Khan Academy
	7 2/18 – 2/22	<ul style="list-style-type: none"> • Presidents Day Holiday 2/18 • Unit Circle • Lesson 12-6 Circles and Periodic Functions 	Lesson 12-6 Khan Academy

All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

		<ul style="list-style-type: none"> Assess 	
	8 2/25 – 3/1	<ul style="list-style-type: none"> Lesson 12-7 Graphing Trig. Functions Lesson 12-8 Translations in Trig. Functions Lesson 13-1 Trig. Identities 	Lesson 12-7 Khan Academy Lesson 12-8 Khan Academy Lesson 13-1 Khan Academy
	9 3/4 – 3/8	<ul style="list-style-type: none"> Review Unit Assess Unit 8 Probability Lesson 0-4 Counting Techniques (Fundamental Counting Principle only) Lesson 0-5 Adding Probabilities (Experimental/Theoretical only) Sets & Venn Diagrams 	Lesson 0-4 Virtual Nerd Lesson 0-6 Khan Academy Venn Diagrams
	10 3/11 – 3/14	<ul style="list-style-type: none"> Sets & Venn Diagrams Probability Addition Rule (Lesson 0-5) Review Assess Teacher Planning 3/15 	Venn Diagrams Lesson 0-5 Khan Academy

All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

	Week	Major Concepts / Topics	Possible Resources
Quarter 4 Mar 18 – May 24	1 3/18 – 3/22	<ul style="list-style-type: none"> • SPRING BREAK – NO SCHOOL 	
	2 3/25 – 3/29	<ul style="list-style-type: none"> • Review Probability Addition Rule/Independence • Conditional Probability • Two-Way Tables 	Two-way Tables – Khan Academy
	3 4/1 – 4/5	<ul style="list-style-type: none"> • Permutations and Combinations • Review • Assess 	Permutations and Combinations - Khan Academy
	4 4/8 – 4/12	<ul style="list-style-type: none"> • Standards Review 	
	5 4/15 – 4/19	<ul style="list-style-type: none"> • Standards Review • Holiday 4/19 	
	6 4/22 – 4/26	<ul style="list-style-type: none"> • Unit 9 Statistics • Lesson 11-1 Designing a Study • Lesson 0-9 Measures of Central Tendency • Lesson 11-2 Distribution of Data 	Lesson 0-9 Khan Academy
	7 4/29 – 5/3	<ul style="list-style-type: none"> • Lesson 11-5 Normal Distribution • Lesson 11-6 Confidence Interval and Hypothesis Testing 	Data Distribution – Khan Academy Lesson 11-5 Khan Academy
	8 5/6 – 5/10	<ul style="list-style-type: none"> • Review • Assess • Unit 10 – Honors Topics • Lesson 3-5 and 3-6 Operations with Matrices • Lesson 3-7/3-8 Solving Systems Using Matrices • Lesson 9-3 Circles 	Matrices – Khan Academy
	9 5/13 – 5/17	<ul style="list-style-type: none"> • Lesson 9-2 Parabolas • Lesson 9-4 Ellipses • Lesson 9-5 Hyperbolas • Standards Review 	Conic Sections – Khan Academy
	10 5/20 – 5/24	<ul style="list-style-type: none"> • Exams 	Conic Sections – Khan Academy

All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.