

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:

[Pearson](#) (use your active directory)

Other Course Supplemental Resources:

[Khan Academy](#) (Algebra 2; does not support Internet Explorer)

[Math Nation](#) (Clever – use your active directory; does not support Internet Explorer)

[Math Planet](#) (Algebra 2)

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 12 – Oct 11	1 8/12 – 8/16	<ul style="list-style-type: none"> 1-1 Key Features of Functions 1-2 Transformations of Functions 	Transformations of Functions – Khan Academy
	2 8/19 – 8/23	<ul style="list-style-type: none"> 1-3 Piecewise Defined Functions Assessment 1-4 Arithmetic Sequences and Series 	Arithmetic Sequences - Khan Academy Arithmetic Series – Khan Academy
	3 8/26 – 8/30	<ul style="list-style-type: none"> 1-4 Arithmetic Sequences and Series Review Assessment 	Arithmetic Sequences - Khan Academy Arithmetic Series – Khan Academy
	4 9/3 – 9/6	<ul style="list-style-type: none"> Labor Day Holiday – 9/2 1-5 Solving Equations and Inequalities by Graphing 1-6 Linear Systems 	
	5 9/9 – 9/13	<ul style="list-style-type: none"> Mathematical Modeling in 3 Acts: Current Events enVision STEM Project Assessment 2-1 Vertex Form of a Quadratic Function 	
	6 9/16 – 9/20	<ul style="list-style-type: none"> 2-1 Vertex Form of a Quadratic Function 2-2 Standard Form of a Quadratic Function 2-3 Factored Form of a Quadratic Function 	
	7 9/23 – 9/27	<ul style="list-style-type: none"> 2-3 Factored Form of a Quadratic Function Assessment 2-4 Complex Numbers and Operations 	
	8 9/30 – 10/4	<ul style="list-style-type: none"> 2-4 Complex Numbers and Operations Mathematical Modeling in 3 Acts: Swift Kick 2-5 Completing the Square 2-6 The Quadratic Formula and the Discriminant 	
	9 10/7 – 10/11	<ul style="list-style-type: none"> 2-6 The Quadratic Formula and the Discriminant Assessment 2-7 Geometric Properties of Parabolas 	

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 15 – Dec 20	1 10/15 – 10/18	<ul style="list-style-type: none"> Teacher Planning 10/14 PSAT 10/16 2-7 Geometric Properties of Parabolas 2.8 Linear-Quadratic Systems Assessment 	
	2 10/21 – 10/25	<ul style="list-style-type: none"> 3-1 Graphing Polynomial Functions 3-2 Adding, Subtracting, and Multiplying Polynomials Assessment 	Graphing Polynomials – Khan Academy
	3 10/28 – 11/1	<ul style="list-style-type: none"> 3-3 Polynomial Identities 3-4 Dividing Polynomials 	Polynomial Identities – Khan Academy
	4 11/4 – 11/8	<ul style="list-style-type: none"> 3-5 Zeros of Polynomial Functions Mathematical Modeling in 3 Acts: What are the Rules? 3-7 Transformations of Polynomial Functions 	Zeros of Polynomials – Khan Academy
	5 11/12 – 11/15	<ul style="list-style-type: none"> Veterans Day 11/11 Assessment 4-1 Inverse Variation and the Reciprocal Function 	
	6 11/18 – 11/22	<ul style="list-style-type: none"> 4-2 Graphing Rational Functions Assessment Factoring Review 	
	7 11/25 – 11/26	<ul style="list-style-type: none"> Factoring Review Thanksgiving Holiday 11/27 - 11/29 	
	8 12/2 – 12/6	<ul style="list-style-type: none"> 4-5 Solving Rational Equations Assessment 	
	9 12/9 – 12/13	<ul style="list-style-type: none"> 5-1 Nth Roots, Radicals, and Rational Exponents Review for Midterm 	
	10 12/16 – 12/20	<ul style="list-style-type: none"> Review for Midterm Midterm Assessment 	

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 6 – Mar 12	1 1/6– 1/10	<ul style="list-style-type: none"> • 5-2 Properties of Exponents and Radicals • 5-3 Graphing Radical Functions • Assessment 	Graphs of Radical Functions – Khan Academy
	2 1/13 – 1/17	<ul style="list-style-type: none"> • 5-4 Solving Radical Functions • Mathematical Modeling in 3 Acts: The Snack Shack • Assessment 	Solving Square Root Equations – Khan Academy Solving Cube Root Equations – Khan Academy
	3 1/21 – 1/24	<ul style="list-style-type: none"> • Martin Luther King Jr. Holiday 1/20 • 5-5 Function Operations • 5-6 Inverse Relations and Functions 	Introduction to Inverse Relationships and Functions – Khan Academy
	4 1/27 – 1/30	<ul style="list-style-type: none"> • Teacher Inservice 1/31 • 5-6 Inverse Relations and Functions • enVision STEM Project • Assessment 	Introduction to Inverse Relationships and Functions – Khan Academy
	5 2/3 – 2/7	<ul style="list-style-type: none"> • 6-1 Key Features of Exponential Functions • 6-2 Exponential Models • Assessment • 6-7 Geometric Sequences and Series 	Exponential functions – Khan Academy Exponential Models – Khan Academy Geometric Sequence – Khan Academy Geometric Series – Khan Academy
	6 2/10 – 2/14	<ul style="list-style-type: none"> • 6-7 Geometric Sequences and Series • Assessment • 6-3 Logarithms 	Geometric Sequence – Khan Academy Geometric Series – Khan Academy Introduction to Logarithms – Khan Academy
	7 2/17 – 2/21	<ul style="list-style-type: none"> • Presidents Day Holiday 2/17 • 6-3 Logarithms • 6-4 Logarithm Functions • Assessment 	Introduction to Logarithms – Khan Academy Logarithmic Functions – Khan Academy
	8 2/24 – 2/28	<ul style="list-style-type: none"> • 6-5 Properties of Logarithms • 6-6 Exponential and Logarithmic Equations 	

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.

	9 3/2 – 3/6	<ul style="list-style-type: none">• Assessment• 9-1 Probability Events• 9-2 Conditional Probability	
	10 3/9 – 3/12	<ul style="list-style-type: none">• 9-2 Conditional Probability• Assessment	

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 23 – May 27	1 3/16 – 3/20	<ul style="list-style-type: none"> • SPRING BREAK – NO SCHOOL 	
	2 3/23 – 3/27	<ul style="list-style-type: none"> • 8-1 Statistical Questions and Variables • 8-2 Statistical Studies and Sampling Methods • 8-3 Data Distributions • 8-4 Normal Distribution 	
	3 3/30 – 4/3	<ul style="list-style-type: none"> • 8-4 Normal Distribution • Assessment • 8-5 Margin of Error • 8-6 Testing Hypothesis From Experiments 	
	4 4/6 – 4/9	<ul style="list-style-type: none"> • Mathematical Modeling in 3 Acts: Mark and Recapture • enVision STEM Project • Assessment • Holiday 4/10 	
	5 4/14 – 4/17	<ul style="list-style-type: none"> • Holiday 4/13 • Final Exam Review 	
	6 4/20 – 4/24	<ul style="list-style-type: none"> • Final Exam Testing 	
	7 4/27 – 5/1	<ul style="list-style-type: none"> • 7-1 Trigonometric Functions and Acute Angles • 7-2 Angles and the Unit Circle 	Angles and Unit Circle – Khan Academy
	8 5/4 – 5/8	<ul style="list-style-type: none"> • 7-3 Trigonometric Functions and Real Numbers • Assessment • 7-4 Graphing Sine and Cosine Functions 	Trigonometric Functions – Khan Academy Graphing Sine and Cosine Functions – Khan Academy
	9 5/11 – 5/15	<ul style="list-style-type: none"> • 7-4 Graphing Sine and Cosine Functions • Mathematical Modeling in 3 Acts: What Note was That? • 7-6 Translating Trigonometric Functions 	Translating Trigonometric Functions – 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.

	10 5/18 – 5/22	<ul style="list-style-type: none">• Assessment	
	11 5/25 – 5/27	<ul style="list-style-type: none">• Assessment	

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.