

Mathematical Practices		Vocabulary	
<div><div><input type="checkbox"/> Make sense of problems and persevere in solving them.</div><div><input type="checkbox"/> Reason abstractly and quantitatively.</div><div><input type="checkbox"/> Construct viable arguments and critique the reasoning of others.</div><div><input type="checkbox"/> Model with mathematics.</div><div><input type="checkbox"/> Use appropriate tools strategically.</div><div><input type="checkbox"/> Attend to precision.</div><div><input type="checkbox"/> Look for and make use of structure.</div><div><input type="checkbox"/> Look for and express regularity in repeated reasoning.</div></div>		<div><div><b>Module 1</b><div>Average rate of change</div><div>Domain</div><div>End behavior</div><div>Function vs. Relation</div><div>Inverse function</div><div>Maximum value</div><div>Minimum value</div><div>Range</div></div><div><b>Module 2</b><div>Absolute Value Equations and Inequalities</div><div>Coefficient</div><div>Disjunction</div><div>Parameter</div><div>Symmetry</div><div>Vertex</div></div></div>	<div><div><b>Module 3</b><div>Complex roots</div><div>Imaginary numbers</div><div>Imaginary root</div><div>Quadratic</div><div>Quadratic formula</div><div>Square root</div></div></div>
Research-based Instructional Practices			
<div><div><ul style="list-style-type: none"><li>Actively seek out and encourage student's thoughts and points of view, and allow students to make choices.</li><li>Explicitly connect lesson content to students' lives.</li><li>Encourage meaningful peer interactions and promote peer conversations.</li><li>Give students the floor. Avoid dominating classroom conversations by maintaining a balance of teacher and student talk.</li><li>Help students consider different perspectives. Present and encourage multiple and varied points of view.</li><li>Convey how and when to use concepts and procedures and the difference between them.</li><li>Assist your students to define and refine their understanding by presenting an assortment of examples and contrasting non-examples that illustrate the concept or procedure.</li><li>Offer extended opportunities for students to examine and analyze information. Engage students in higher-order thinking skills by giving them chances to explore data and evidence.</li><li>Provide opportunities for students to make predictions and brainstorm consequences. Encourage them to discover and evaluate their own answers.</li><li>Challenge students with open-ended tasks that have a variety of solutions and require students to think about how to use their knowledge in creative ways.</li><li>Help students monitor their own thinking by showing them how you approach a problem and the questions you ask yourself to monitor your own thinking process. Model the process by thinking out loud.</li><li>Help students to think about their own learning by offering opportunities to reflect on, plan, and share their developing thought processes.</li></ul></div></div>			



Algebra II • First Quarter

Pacing Guide

Go Math! Units 1-2, Modules 1-3



Mathematics

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Algebra II		Mathematics		First Quarter	
Unit 1: Functions			Unit 2: Quadratic Equations		
<p>Module 1: Analyzing Functions</p> <p>1.2 F.IF.4, F.IF.6, A.CED.2, S.ID.6 Characteristics of Function Graphs</p> <p>For a function that models a relationship between two quantities, interpret key features and sketch graphs showing key features.</p> <p><input type="checkbox"/> I CAN determine key attributes of a function and how they are related to the function’s graph.</p> <p>1.4 F.BF.4(+) Inverses of Functions</p> <p>Find inverse functions.</p> <p><input type="checkbox"/> I CAN find the inverse of a function and prove that it is an inverse of the given function.</p> <p>Module 2: Absolute Value Functions, Equations, and Inequalities</p> <p>2.1 F.IF.4, F.IF.7, A.CED.2, F.BF.3 Graphing Absolute Value Functions</p> <p>Graph piecewise-defined functions including absolute value functions.</p> <p><input type="checkbox"/> I CAN identify the features of the graph of an absolute value function.</p> <p>2.2 A.CED.1, A.REI.3, A.REI.11 Solving Absolute Value Equations</p> <p>Create equations and inequalities in one variable and use them to solve problems.</p> <p><input type="checkbox"/> I CAN solve an absolute value equation.</p> <p>2.3 A.CED.1, A.REI.3, F.IF.7 Solving Absolute Value Inequalities</p> <p>Create equations and inequalities in one variable and use them to solve problems.</p> <p><input type="checkbox"/> I CAN solve an absolute value inequality graphically or algebraically.</p>			<p>Module 3: Quadratic Equations</p> <p>3.1 N.CN.1, A.REI.4 Solving Equations by Taking Square Roots</p> <p>Know there is a complex number <math>i</math> such that <math>i^2 = -1</math>, and every complex number has the form <math>a+bi</math> with <math>a</math> being real.</p> <p><input type="checkbox"/> I CAN tell what an imaginary number is and how it is useful in solving Quadratic equations.</p> <p>3.2 N.CN.1, N.CN.2 Complex Numbers</p> <p>Use the relation <math>i^2 = -1</math> and the commutative, associative, distributive properties to add, subtract, &amp; multiply complex numbers.</p> <p><input type="checkbox"/> I CAN add, subtract, and multiply complex numbers</p>		

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Research-based Instructional Practices		
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Algebra II • Second Quarter

Pacing Guide

Go Math! Units 2 and 3, Modules 4 and 5



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Algebra II		Mathematics		Second Quarter	
Unit 2: Quadratic Equations and Relations			Unit 3: Polynomial Functions and Expressions		
<p>Module 4: Quadratic Relations and Systems of Equations</p> <p>4.1: A.CED.2, A.CED.3, G.GPE.1, G.GPE.4</p> <p>Circles</p> <p>Represent constraints by equations or inequalities, and interpret solutions as viable or non-viable options in a modeling context.</p> <p><input type="checkbox"/> I CAN put the equation of a circle in standard form and I know how to find the center of the circle and the radius from the equation.</p> <p>4.2: A.CED.2, A.CED.3, G.GPE.2</p> <p>Parabolas</p> <p>Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.</p> <p><input type="checkbox"/> I CAN use the distance formula to drive the equations for both vertical and horizontal parabolas.</p> <p>4.3: A.REI.7</p> <p>Solving Linear-Quadratic Systems</p> <p>Solve a simple system consisting of a linear equation and a quadratic equation in two variables algebraically and graphically.</p> <p><input type="checkbox"/> I CAN solve a system composed of a linear equation in two variables and a quadratic equation in two variables.</p> <p>4.4: A.REI.6, A.CEI.3</p> <p>Solving Linear Systems in Three Variables</p> <p>Solve systems of linear equations exactly.</p> <p><input type="checkbox"/> I CAN find the solutions of a system of three linear equations in three variables.</p>			<p>Module 5: Polynomial Functions</p> <p>5.2: F.IF.7</p> <p>Graphing Polynomial Functions</p> <p>Graph polynomial functions, identifying zeros when suitable factorizations are available, and showing end behavior.</p> <p><input type="checkbox"/> I CAN sketch the graph of a polynomial function in intercept form.</p>		

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Research-based Instructional Practices	
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Algebra II • Third Quarter

Pacing Guide

Go Math! Unit 3, Modules 6-7



Mathematics

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Algebra II		Mathematics		Third Quarter	
Unit 3: Polynomials			Unit 3: Equations		
<p>Module 6: Polynomials</p> <p>6.1: A.APR.1, F.BF.1 Adding and Subtracting Polynomials</p> <p>Understand that polynomials form a system closed under the operations of addition and subtraction.</p> <p><input type="checkbox"/> I CAN add or subtract two polynomials and define the type of the resulting expression.</p> <p>6.2: A.APR.1, A.APR.4, F.BF.1 Multiplying Polynomials</p> <p>Understand the polynomials form a system closed under multiplication.</p> <p><input type="checkbox"/> I CAN multiply polynomials and define the type of the resulting expression.</p> <p>6.3: A.APR.5(+) The Binomial Theorem</p> <p>Know and apply the Binomial Theorem for the expansion of <math>(x + y)^n</math> in powers of <math>x</math> and <math>y</math> for a positive integer <math>n</math>, where <math>x</math> and <math>y</math> are any numbers, with coefficients determined for the example by Pascal's Triangle.</p> <p><input type="checkbox"/> I CAN understand how to use the Binomial Theorem to find coefficients.</p> <p>6.4: A.SSE.1, A.SSE.2, N.CN.8(+), A.APR.3, A.CED.1 Factoring Polynomials</p> <p>Use the structure of an expression to identify ways to rewrite it.</p> <p><input type="checkbox"/> I CAN factor a polynomial and I can tell why factoring is useful.</p> <p>6.5: A.APR.1, A.APR.3, A.APR.6 Dividing Polynomials</p> <p>Rewrite simple rational expressions in different forms; write <math>a()/b(x)</math> in the form <math>q(x) + r(x)/b(x)</math> using inspection and long division.</p> <p><input type="checkbox"/> I CAN divide a polynomial with the correct divisor using synthetic division and long division.</p>			<p>Module 7: Polynomial Equations</p> <p>7.1: A.APR.2, A.APR.3, A.CED.3 Finding Rational Solutions of Polynomial Equations</p> <p>Know and apply the Remainder Theorem. For a polynomial <math>p(x)</math> and a number <math>a</math>, the remainder on division by <math>x - a</math> is <math>p(a)</math>, so <math>p(a) = 0</math> if and only if <math>(x - a)</math> is a factor of <math>p(x)</math>.</p> <p><input type="checkbox"/> I CAN find the rational roots of a polynomial equation.</p> <p>7.2: A.APR.2, A.APR.3, N.CN.9(+), A.REI.1, F.IF.7 Finding Complex Solutions of Polynomial Functions</p> <p>Know and apply the Remainder Theorem.</p> <p><input type="checkbox"/> I CAN use the Fundamental Theorem of Algebra and its corollary to find the roots of the polynomial equation <math>p(x) = 0</math> where <math>p(x)</math> has degree <math>n</math>.</p>		

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# Algebra II • Fourth Quarter Pacing Guide

Go Math! Units 4-9  
Modules 9, 10, 11, 13, 14, 17, 18, 19-22



# Mathematics

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Algebra II		Mathematics		Fourth Quarter
Unit 4: Rational Functions, Expressions, and Equations		Unit 6: Exponential and Logarithmic Functions & Equations		Unit 7: Trigonometric Functions
<p><b>Module 9: Rational Expressions and Equations</b></p> <p><b>9.3: A.REI.1, A.REI.2, A.CED.1, A.CED.4</b>  <b>Solving Rational Functions</b>            Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.</p> <p><input type="checkbox"/> <b>I CAN</b> solve rational equations algebraically and graphically.</p>		<p><b>Module 13: Exponential Functions</b></p> <p><b>13.4: F-LE.A.2, F-IF.C.7e, F-IF.C.7, A-REI.D.11</b>  <b>Construct Linear and Exponential Functions and Explain Simple Versus Compound Interest</b>            Find an exponential regression model from data.</p> <p><input type="checkbox"/> <b>I CAN</b> write a linear or exponential equation from a graph, a discription, or coordinate pairs.</p> <p><b>Module 14: Modeling with Exponential and Other Functions</b></p> <p><b>14.1: S-ID.B.6a, A-CED.A.2, F-IF.B.4, F-IF.C.7e</b>  <b>Fitting Exponential Functions to Data</b>            Fit a function to the data and use them to solve problems.</p> <p><input type="checkbox"/> <b>I CAN</b> write an exponential equation from given data and use it to solve problems.</p> <p><b>14.2: S-ID.B.6a, A-CED.A.2, F-IF.B.4, F-IF.C.7e</b>  <b>Choosing Among Linear, Quadratic, and Exponential Models</b>            Determine which kind of model is best represented by points on a coordinate plane.</p> <p><b>I CAN</b> determine the correct type of equation to fit given data.</p>		<p><b>18.3 : 3 F-IF.C.7e,F-BF.B.3, F-IF.B.4, F-IF.C.9</b>  <b>Translating Graphs</b>            Explain how the constants in trigonometric functions affect their graphs</p> <p><input type="checkbox"/> <b>I CAN</b> graph exponential and logarithmic functions intercepts and end behaviors, and trigonometric functions showing period, mid-line, and amplitude.</p> <p><b>18.4: F-IF.C.7e, N-Q.A.2, S-ID.B.6a, A-CED.A.2, F-IF.B.4, A-REI.D.11</b>  <b>Fitting Sine Functions to Data</b>            Match sine functions to their graphs and to data sets.</p> <p><input type="checkbox"/> <b>I CAN</b> correctly choose trigonometric functions to model periodic phenomena.</p>
Unit 5: Rational Functions, Expressions, and Equations		Unit 7: Trigonometric Functions		Unit 8: Probability
<p><b>Module 10: Rational Functions</b></p> <p><b>10.2: F-IF.4, F-IF.6, F-IF.7, F-BF.3</b>  <b>Graphing Square Root Functions</b>            Graph square root functions.</p> <p><input type="checkbox"/> <b>I CAN</b> use transformations of a parent square root function to graph functions of the form <math>g(x) = a</math> multiplied by the square root of <math>(x - h)</math> plus <math>k</math> or <math>g(x) =</math> the square root of <math>1/b(x - h)</math> plus <math>k</math>.</p> <p><b>10.3: F-IF.3, F-IF.4, F-IF.6, F-IF.7, F-BF.3</b>  <b>Graphing Cube Root Functions</b>            Graph cube root functions.</p> <p><input type="checkbox"/> <b>I CAN</b> use transformations of a parent cube root function to graph functions of the form <math>f(x) = a</math> multiplied by the cube root of <math>(x - h)</math> plus <math>k</math> or <math>g(x) =</math> the cube root of <math>1/b(x - h)</math> plus <math>k</math>.</p>		Unit 7: Trigonometric Functions		<p><b>Module 19: Introduction to Probability</b></p> <p><b>19.4: S-CP.A.4, S-CP.B.7</b>  <b>Mutually Exclusive and Over-lapping Events</b>            Explain how to determine whether events are mutually exclusive or overlapping.</p> <p><input type="checkbox"/> <b>I CAN</b> use a Venn diagram to decide if events are independent and to approximate conditional probabilities.</p>
<p><b>Module 11: Radical Expressions and Equations</b></p> <p><b>11.3: A.REI.1, A.REI.2, A.CED.1</b>  <b>Solving Radical Equations</b>            Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions my arise.</p> <p><input type="checkbox"/> <b>I CAN</b> solve equations involving square roots and cube roots algebraically and graphically.</p>		<p><b>Module 17: Unit-Circle Definition of Trigonometric Functions</b></p> <p><b>17.1: F-TF.A.1, G-C.C.5</b>  <b>Angles of Rotation and Radian Measure</b>            Show an angle's initial and terminal sides and defining standard position of an angle.</p> <p><input type="checkbox"/> <b>I CAN</b> understand radian measure of an angle as the length of the arc on the unit circle subtended by the angle.</p> <p><b>17.2: TF.F.A.2, F-TF.A.3</b>  <b>Defining and Evaluating Basic Trigonometric Functions</b>            Label sine, cosine and tangent in right triangles with a unit circle.</p> <p><input type="checkbox"/> <b>I CAN</b> explain how the unit circle in the coordinate plane enables the extension of trigonometric functions to all real numbers.</p> <p><b>Module 18: Graphing Trigonometric Functions</b></p> <p><b>18.1: F-IF.C.7e,F-BF.B.3, F-IF.B.4</b>  <b>Stretching, Compressing and Reflecting Sine and Cosine</b>            Describe features of since and cosine.</p> <p><b>I CAN</b> graph exponential and logarithmic functions intercepts and end behaviors and trigonometric functions showing period, mid-line, and amplitude.</p> <p><b>18.2: F-IF.C.7e,F-BF.B.3, F-IF.B.4, F-IF.C.9</b>  <b>Stretching, Compressing, and Reflecting Tangent Graphs</b>            Describe features of sine, cosine, and tangent functions</p> <p><input type="checkbox"/> <b>I CAN</b> graph exponential and logarithmic functions intercepts and end behaviors, and trigonometric functions showing period, mid-line, and amplitude.</p>		<p><b>Module 20: Conditional Probability and Independence of Events</b></p> <p><b>20.1: S-CP.A.4, S-CP.A.3, S-CP.A.5, S-CP.B.6</b>  <b>Conditional Probability.</b>            Find conditional probabilities.</p> <p><input type="checkbox"/> <b>I CAN</b> use a Venn diagram to approximate conditional probabilities.</p> <p><b>Module 21: Probability and Decision Making</b></p> <p><b>21.2 S-CP.A.4, S-CP.A.5, S-MD.B.7</b>  <b>Analyzing Decisions</b>            Analyze a decision using probability.</p> <p><input type="checkbox"/> <b>I CAN</b> construct and interpret 2-way frequency tables of data to help analyze decision making.</p>
		Unit 9: Statistics		<p><b>Module 22: Gathering and Displaying Data</b></p> <p><b>22.1: 22.1S-IC.A.1</b>  <b>Data-gathering Techniques</b>            Show the relationships among population, census, and parameter, as well as sample, sampling and statistic.</p> <p><input type="checkbox"/> <b>I CAN</b> understand statistics as a process for making inferences about a given population.</p>