

Quarter 2

Algebra II

Algebra II: Year at a Glance

Quar	ter 1		Quarter 2		Quarte	er 3	Quarte	r 4
Expressions, Equations, Inequalities Various Functions, Equations & Their Graphs, Linear Systems, Quadratic Functions & Equations		Polynomials, Radicals, Inverses, Logarithms, Exponential Functions		Rational Expressions and Equations, Arithmetic and Geometric Sequences and Series, Probability		Trigonometric Pythagorean I Unit Cir <i>TNReady April</i>	dentities, cle	
August 12, 2019 –	October 11, 2019	Octob	er 21, 2019 – December 20, 2	2019	January 6, 2020 – M	arch 13, 2020	March 23, 2020 – M	lay 22, 2020
A2.A.REI. D.6	A2.A.REI. B.3	A2.A.APR. A.1	A2. F.IF. A.1	A2. F.IF. B.5	A2.A.REI. A.1	A2. S.CP. A.2	A2. F.TF.A.1	
A2.F.BF. A.1	A2.A.REI. B.3a	A2.A.APR. A.2	A2. F.IF. A.2	A2. F.LE. A.1	A2.A.REI. A.2	A2. S.CP.A.3	A2. F.TF.A.1a	
A2.F.BF. A.1a	A2. S. ID. B.2	A2.A.REI. A.1	A2. A. CED.A.1	A2. F.LE. A.2	A2.A.REI. D.6	A2. S.CP.A.4	A2. F.TF.A.1b	
A2.F.BF. A.1b	A2. A.N.Q.A.1	A2.A.REI. A.2	A2. A. CED.A.2	A2. S.ID. B.2	A2.A.SSE. B.3	A2. S.CP.B.5	A2. F.TF.A.2	
A2. A. CED.A.1	A2. F.IF.B.3a	A2.A.REI. D.6	A2.N.RN. A.1	A2. A.N.Q.A.1	A2.F.BF. A.1a	A2. S.CP.B.6	A2. F.TF.B.3	
A2. A. CED.A.2		A2.A.SSE. A.1	A2.N.RN. A.2	A2. F.BF.B.3	A2.F.BF. A.1b	A2. S.ID. A.1	A2. F.TF.B.3a	
A2.A.REI. C.4		A2.A.SSE. B.2/2a	A2.A.APR. B.3	A2. F.BF.B.4	A2.F.BF. A.2	A2. A. APR.C.4	A2. F.TF.B.3b	
A2.REI. C.5		A2.A.SSE. B.3	A2. F.IF. B.3a	A2. F.LE. B.3	A2. S.IC.A.1	A2. F.BF.B.4	A2. A.N.Q.A.1	
A2. N.C.N. A.1		A2.F.BF. A.1/1a	A2. F.IF. B.3b	A2.A.APR. B.3	A2. S.IC.A.2	A2. A.N.Q.A.1		
A2. N.C.N. A.2		A2.F.BF. A.1b	A2. F.IF. B.3c		A2. F. IF.A.1	A2. F. IF.B.3		
A2. N.C.N. B. 3		A2.A.APR. C.4	A2. F.IF.B.4		A2. S.CP. A.1	A2. F.LE. A.1		



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Introduction

Destination 2025, Shelby County Schools' 10-year strategic plan, is designed not only to improve the quality of public education, but also to create a more knowledgeable, productive workforce and ultimately benefit our entire community.

What will success look like?



In order to achieve these ambitious goals, we must collectively work to provide our students with high quality, college and career ready aligned instruction. The Tennessee State Standards provide a common set of expectations for what students will know and be able to do at the end of a grade. The State of Tennessee provides two sets of standards, which include the Standards for Mathematical Content and The Standards for Mathematical Practice. The Content Standards set high expectations for all students to ensure that Tennessee graduates are prepared to meet the rigorous demands of mathematical understanding for college and career. The eight Standards for Mathematical Practice describe the varieties of expertise, habits of mind, and productive dispositions that educators seek to develop in all students. The Tennessee State Standards also represent three fundamental shifts in mathematics instruction: focus, coherence and rigor.

Instructional Shifts for Mathematics



Throughout this curriculum map, you will see resources as well as links to tasks that will support you in ensuring that students are able to reach the demands of the standards in your classroom. In addition to the resources embedded in the map, there are some high-leverage resources around the content standards and mathematical practice standards that teachers should consistently access. For a full description of each, click on the links below.



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How to Use the Maps

Overview

An overview is provided for each quarter and includes the topics, focus standards, intended rigor of the standards and foundational skills needed for success of those standards.

Your curriculum map contains four columns that each highlight specific instructional components. Use the details below as a guide for information included in each column.

Tennessee State Standards

TN State Standards are located in the left column. Each content standard is identified as Major Content or Supporting Content (for Algebra I, Algebra II & Geometry only). A key can be found at the bottom of the map.

Content

This section contains learning objectives based upon the TN State Standards. Best practices tell us that clearly communicating measurable objectives lead to greater student understanding. Additionally, essential questions are provided to guide student exploration and inquiry.

Instructional Support & Resources

District and web-based resources have been provided in the Instructional Support & Resources columns. You will find a variety of instructional resources that align with the content standards. The additional resources provided should be used as needed for content support and scaffolding. The inclusion of vocabulary serves as a resource for teacher planning and for building a common language across K-12 mathematics. One of the goals for Tennessee State Standards is to create a common language, and the expectation is that teachers will embed this language throughout their daily lessons.

Instructional Calendar

As a support to teachers and leaders, an instructional calendar is provided **as a guide**. Teachers should use this calendar for effective planning and pacing, and leaders should use this calendar to provide *support* for teachers. Due to variances in class schedules and differentiated support that may be needed for students, adjustment to the calendar may be required.



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Topics Addressed in Quarter

Polynomial Operations & Functions Analyzing Graphs of Polynomial Functions Rational Exponents and Expressions Square Root and Radical Equations Radical and Inverse Functions Exploring and Graphing Exponential Functions.

Overview

In quarter 2 students build upon the reasoning used to solve equations and their fluency in factoring polynomial expressions. They will build functions that model a relationship between two quantities and represent and solve equations and inequalities graphically. Later in the quarter students will solve systems of linear and nonlinear equations to which no real solutions exist and then relate this to the possibility of quadratic equations with no real solutions. Students will then discover that complex numbers can be used in finding real solutions of polynomial equations. To reach this goal, students will work with properties and operations of complex numbers and then apply that facility to factor polynomials with complex zeros.

Content Standard	Type of Rigor			
A2.CED.A.1	Procedural Fluency, Application, Conceptual Understanding			
A2.CED.A.2	Procedural Fluency			
A2.A.APR.A.2 (formerly A-APR.A.3)	Conceptual Understanding and Procedural Fluency			
A2.F.IF.A.2 (formerly F-IF.B.6)	Conceptual Understanding and Procedural Fluency			
A2.F.IF.A.1 (formerly F-IF.B.4)	Conceptual Understanding			
A2.F.BF.A.1/1a/1b (formerly A2.F.BF.1/1a/1b)	Conceptual Understanding & Application, Procedural Fluency			
A2.A.REI.D.6 (formerly A-REI.11)	Conceptual Understanding & Procedural Fluency			
A2.A.APR.A.1 (formerly A-APR.A.2)	Conceptual Understanding and Procedural Fluency			
A2.N.RN.A.1 (formerly N-RN.A.1)	Conceptual Understanding			
A2.N.RN.A.2 (formerly N-RN.A.2)	Conceptual Understanding and Procedural Fluency			
A2.A.REI.A.1 (formerly A-REI. A.1)	Conceptual Understanding			
A2.A.REI.A.2 (formerly A-REI. A.2)	Conceptual Understanding and Procedural Fluency			
A2.A.SSE.A.1 (formerly A-SSE.A.2)	Conceptual Understanding and Procedural Fluency			
A2.A.SSE.B.2/2a (formerly 3/3c)	Procedural Fluency and Conceptual Understanding			
A2.A.SSE.B.3 (formerly A-SSE.B.4)	Procedural Fluency and Application			
indicates a Power Stand	indicates a Power Standard based on the 2017-18 TN Ready Assessment			
Instructional Focus Document (Algebra II)				



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CONTENT Polynomials and Po (Allow approximately 4 weeks for ins Essential Question(s): How can algebra describe the relationship between a function and its graph? Objective(s): • Students will classify polynomials.	lynomial Functions	Vocabulary Monomial, degree of a monomial, polynomial, degree of a polynomial, polynomial function, standard form of a polynomial function, turning point, end
(Allow approximately 4 weeks for ins Essential Question(s): How can algebra describe the relationship between a function and its graph? Objective(s): • Students will classify polynomials.	truction, review, and assessment) Use the textbook resources to address procedural fluency. Pearson	Monomial, degree of a monomial, polynomial, degree of a polynomial, polynomial function, standard form of a
 How can algebra describe the relationship between a function and its graph? Objective(s): Students will classify polynomials. 	procedural fluency. Pearson	Monomial, degree of a monomial, polynomial, degree of a polynomial, polynomial function, standard form of a
 (A2.F.IF.B.5) Students will use the factored forms of polynomials to find zeros of a function. (A2.A.APR.A.2) Students will use the factored forms of polynomials to sketch the components of graphs between zeros. (A2.A.APR.A.2, A2.F.IF.A.1) Students will graph polynomials and describe end behavior. (A2.A.APR.A.2, A2.F.IF.A.1) Students perform arithmetic operations on polynomials and write them in standard form. (A2.A.APR.A.2) Students understand the structure of polynomial expressions by quickly determining the first and last terms if the polynomial were to be written in standard form. (A2.F.IF.B.5) 	Glencoe 6.1 Operations with Polynomials Select from the following resources to ensure that the intended outcome and level of rigor of the standards are met. Additional Resources e Math instruction: Unit 10 Illustrative Math: Graphing from Factors 1 Illustrative Math: Graphing from Factors 1 Illustrative Math: Graphing from Factors 1 Illustrative Math: Craphing from Factors 1 Illustrative Math: Sorting Functions Polynomial End Behavior Graphs of Higher Degree Polynomials End Behavior HS Flip Book with examples of each Standard *Not accessible via SCS server	 behavior Polynomial Foldable Writing in Math Why does the end behavior depend on the leading term? Have students to write a sentence(s) and create at least two examples about their thinking. Resources in the Pearson textbook: Solve it," Think About a Plan, Find the Errors, Multiple word problems, Reasoning question, Compare/contrast question, Open-ended questions, and Connections to other real world topics and/or other subjects
Essential Question(s): How are the linear factors of a polynomial related to the zeros of the polynomial?	Use the textbook resources to address procedural fluency. Pearson	Vocabulary Factor theorem, multiple zero, multiplicity, relative maximum, relative minimum
	 (A2.A.APR.A.2) Students will use the factored forms of polynomials to sketch the components of graphs between zeros. (A2.A.APR.A.2, A2.F.IF.A.1) Students will graph polynomials and describe end behavior. (A2.A.APR.A.2, A2.F.IF.A.1) Students perform arithmetic operations on polynomials and write them in standard form. (A2.A.APR.A.2) Students understand the structure of polynomial expressions by quickly determining the first and last terms if the polynomial were to be written in standard form. (A2.F.IF.B.5) 	 polynomials to find zeros of a function. (A2.A.APR.A.2) Students will use the factored forms of polynomials to sketch the components of graphs between zeros. (A2.A.APR.A.2, A2.F.IF.A.1) Students will graph polynomials and describe end behavior. (A2.A.APR.A.2, A2.F.IF.A.1) Students perform arithmetic operations on polynomials and write them in standard form. (A2,A.APR.A.2) Students understand the structure of polynomial expressions by quickly determining the first and last terms if the polynomial were to be written in standard form. (A2.F.IF.B.5) Essential Question(s): How are the linear factors of a polynomial? Select from the following resources to ensure that the intended outcome and level of rigor of the standards are met. Select from the following resources to ensure that the intended outcome and level of rigor of the standards are met. Additional Resources e Math instruction: Unit 10 Illustrative Math: Graphing from Factors 11 Illustrative Math: Graphing from Factors 11 Illustrative Math: Sorting Functions Polynomial End Behavior Graphs of Higher Degree Polynomials End Behavior HS Flip Book with examples of each Standard "Not accessible via SCS server

★(star) Modeling Standard/Domain



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 IN STATE STANDARDS A2.A.APR.A.2 Identify zeros of polynomials when suitable factorizations are available, and use the zeros to construct a rough graph of the function defined by the polynomial. Domain: Linear, Quadratic, and Exponential Models Cluster: Interpret functions that arise in applications in terms of the context. A2. F.IF.A.1 For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. ★ Domain: Linear, Quadratic, and Exponential Models Cluster: Interpret functions that arise in the relationship. 	 CONTENT Students will analyze the factored form of a polynomial. (A2.A.APR.A.2) Students will write a polynomial function given its zeros and use the zeros to construct a rough graph of the function defined by the polynomial. (A2.A.APR.A.2, A2.F.IF.A.1) Students decide which type of model is appropriate by analyzing numerical or graphical data, verbal descriptions, and by comparing different data representations. (A2.F.IF.B.5, A2.F.IF.A.2) Students will calculate the average rate of change of a function for determining when it is increasing or decreasing. (A2.F.IF.A.2) 	INSTRUCTIONAL SUP Glencoe 6.3 Polynomials Functions Select from the following resources to ensure that the intended outcome and level of rigor of the standards are met. Additional Resources: Math Nspired: Exploring Polynomials: Factors, Roots, and Zeros Illustrative Math: The High School Gym A2.F.IF.A.2 Illustrative Math: Mathemafish Population A2.F.IF.A.2 Illustrative Math: Throwing Baseballs A2.F.IF.B.5	PORT & RESOURCES Factoring Flow Chart Writing in Math Can zero be a solution of a polynomial function? Create and solve an example Explain your response.
Domain: Linear, Quadratic, and Exponential		Illustrative Math: Mathemafish Population A2.F.IF.A.2	
 Domain: Interpreting Functions Cluster: Analyze functions using different representations. ➢ A2.F.IF.B.5 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). 			



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TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUP	PORT & RESOURCES
 Domain: Arithmetic with Polynomials and Rational Expressions Cluster: Understand the relationship between zeros and factors of Polynomials A2.A.APR.A.2 Identify zeros of polynomials when suitable factorizations are available, and use the zeros to construct a rough graph of the function defined by the polynomial. Cluster: Use polynomial identities to solve problems. A2.A.APR.B.3 Know and use polynomial identities to describe numerical relationships. Domain: Seeing Structure in Expressions Cluster: Interpret the structure of expressions. A2.A.SSE.A.1 Use the structure of an expression to identify ways to rewrite it. Domain: Interpreting Functions Cluster: Interpret functions that arise in applications in terms of the context. A2.F.IF.A.1 For a function that models a relationship between two quantities, interpret 	 Essential Question(s): Will a graph help you to check all solutions to a polynomial equation? How can you check imaginary solutions? Objective(s): Students will solve polynomial equations by factoring and by graphing. (A2.A.SSE.A.1) Students will interpret key features of graphs and tables in terms of quantities, given a function that models a relationship between two quantities. (A2.F.IF.A.1) Students will sketch graphs showing key features given a verbal description of the relationship. (A2.F.IF.A.1) Students will factor certain forms of polynomial expressions by using the structure of the polynomials. (A2.A.SSE.A.1) Students will use the factored forms of polynomials to find zeros of a function. Students find solutions to polynomial equations where the polynomial expression is not factored into linear factors. Students use the factored forms of polynomials to find zeros with stated multiplicity. 	Use the textbook resources to address procedural fluency. Pearson 5-3 Solving Polynomial Equations Glencoe 6.5 Solving Polynomial Functions Select from the following resources to ensure that the intended outcome and level of rigor of the standards are met. Eureka Math Module 1 Lessons 11 & 14 Additional Resources: Illustrative Math: Graphing from Factors 1 Illustrative Math: Intro to Polynomials - College Fund A2.A.REI.D.6 Illustrative Math: Building a Quadratic Function f(x)=x^2 A2.F.BF.B.3 Illustrative Math: Hoisting the Flag 1 A2.F.IF.A.1 Illustrative Math: Containers A2.F.IF.A.1 Illustrative Math: Completing the Square	PORT & RESOURCES Vocabulary Sum of cubes, differences of cubes, zeros of polynomials When should you use the quadratic formula to solve a polynomial?
 Cluster: Interpret functions that arise in applications in terms of the context. A2.F.IF.A.1 For a function that models a 	has a specified set of zeros with stated multiplicity.Students use the factored forms of	Illustrative Math: Hoisting the Flag 1 A2.F.IF.A.1 Illustrative Math: Containers A2.F.IF.A.1	
features given a verbal description of the relationship. ★ Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; and end behavior.	algebraic, and graphical thinking in analyzing applied polynomial problems.Students interpret and represent relationships between two types of quantities with polynomial functions.	HS Flip Book with examples of each Standard	



quantities. ★

from a context.

Curriculum and Instruction – Mathematics

Quarter 2 **TN STATE STANDARDS Domain:** Building Functions Cluster: Build a function that models relationship between two quantities A2. F.BF.A.1 Write a function that describes a relationship between two a. Determine an explicit expression, recursive process, or steps for calcul

b. Combine standard function types arithmetic operations. For example, function that models the temperature cooling body by adding a constant fur a decaying exponential, and relate th functions to the model.

Cluster: Build new functions from exis functions

> A2.F.BF.B.3 Identify the effect on graph of replacing f(x) by f(x) + k, f(x), f(kx), and f(x + k) for specific values of k (both positive and negative); find the value of k given graphs. Experiment with cases an illustrate an explanation of the effe on the graph using technology.

Domain: Reasoning with Equations an Inequalities

Cluster: Represent and solve equation inequalities graphically.

A2.A.REI.D.6

Explain why the x-coordinates of the where the graphs of the equations y

	CONTENT	INSTRUCTIONAL SUPPORT & RESOURCES
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TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUP	PORT & RESOURCES
 y = g(x) intersect are the solutions of the equation f(x) = g(x); find the approximate solutions using technology. ★ Domain: Number Quantities Cluster: Reason quantitatively and use units to solve problems. > A2.N.Q.A.1 Identify, interpret, and justify appropriate quantities for the purpose of descriptive modeling. Descriptive modeling refers to understanding and interpreting graphs; identifying extraneous information; choosing appropriate units; 			
etc. ★ Domain: Arithmetic with Polynomials and	Essential Question(s):		Vocabulary
Rational Expressions Cluster: Understand the relationship between zeros and factors of Polynomials	When is it best to use long division vs. synthetic division? Objective(s):	Use the textbook resources to address procedural fluency. Pearson	Synthetic division, remainder theorem, Rational Root Theorem, Conjugate Root Theorem, Descartes' Rule of Signs
■ A2.A.APR.A.1 Know and apply the Remainder Theorem: For a polynomial $p(x)$ and a number a, the remainder on division by x – a is $p(a)$, so $p(a) = 0$ if and only if $(x - a)$ is a factor of $p(x)$.	 Students will divide polynomials by long division. Students will divide polynomials by synthetic division. Students understand the Fundamental Theorem of Algebra; that all polynomial 	 5-4 Dividing Polynomials 5-5 Theorems About Roots of Polynomial equations Glencoe 6.2 Dividing Polynomials 6.7 Roots and Zeros 	Writing in Math How does dividing a polynomial by a binomial determine if that binomial is a factor of the polynomial? After applying the Conjugate Root Theorem,
Domain: Arithmetic with Polynomials and Rational Expressions Cluster: Understand the relationship between zeros and factors of Polynomials	 expressions factor into linear terms in the realm of complex numbers. Students know and apply the remainder theorem and understand the role zeros play in the theorem. 	Select from the following resources to ensure that the intended outcome and level of rigor of the standards are met.	how do you know that you have found all of the roots of a polynomial?
A2.A.APR.C.4 Rewrite simple rational expressions in different forms; write a(x)/b(x) in the form q(x) + r(x)/b(x), where a(x), b(x), q(x), and r(x) are polynomials with the degree of r(x) loss than the	 Students connect long division of polynomials with the long division algorithm of arithmetic and use this algorithm to rewrite rational expressions that divide without a remainder. Students define rational expressions and write 	Eureka Math Module 1 Topic B Lesson 19 Module 1 Lessons 4, 22, 24 & 25	
with the degree of r(x) less than the degree of b(x), using inspection, long	 Students define rational expressions and write them in equivalent forms. 	Additional Resource(s):	



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TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUP	PORT & RESOURCES
division, or, for the more complicated examples, a computer algebra system.	 Students multiply and divide rational expressions and simplify using equivalent expressions. Students perform addition and subtraction of rational expressions. 	Math Nspired: Watch Your p's and q's Illustrative Math: Graphing from Factors 3 A2.A.APR.A.1 (A-APR.A.2) Illustrative Math: Combined Fuel Efficiency A2.A.APR.C.4 (A-APR.C.6) HS Flip Book with examples of each Standard	
 Domain: Interpreting Functions Cluster: Analyze functions using different representations. A2.F.IF.B.3 Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology. b. Graph polynomial functions, identifying zeros when suitable factorizations are available, and showing end behavior. 	 Essential Question(s): How can regression analysis help determine the best fit polynomial to given data? What are the different transformations that can be applied to a power function? Objective(s): Students will fit data to linear, quadratic, cubic, or quartic models. Students will apply transformations to graphs of polynomials. Students will use the factored forms of polynomials to find zeros of a function. Students will use the factored forms of polynomials to sketch the components between zeros. Students will graph polynomials functions and describe end behavior based upon the degree of the polynomial. 	Use the textbook resources to address procedural fluency. Pearson 5-8 Polynomial Models in the Real World 5-9 Transforming Polynomial Functions Glencoe 6.4 Analyzing Graphs and Modeling Data of Polynomial Functions Select from the following resources to ensure that the intended outcome and level of rigor of the standards are met. Eureka Math Module 1 Topic B Lessons 14-16 Additional Resources: Find dimensions of a piece of land and riding the bus Illustrative Math: Graphs of Power Functions A2.F.IF.B.3 (F-IF.C.7c)	Vocabulary Linear regression (linreg), quadratic regression (quadreg), cubic regression (cubicreg), Power function, constant of proportionality Writing in Math Explain how to find the degree of a polynomial by finding differences. What are the different ways that a parent function can be transformed?
	Radical Functions and		
Domain: The Real Number System Cluster: Extend the properties of exponents to rational exponents.	(Allow approximately 2 weeks for in Essential Question(s): How does the index relate to the rational exponent of a radical?	struction, review, and assessment) Use the textbook resources to address procedural skill and fluency.	Vocabulary Rational exponent Writing in Math



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TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUP	PORT & RESOURCES
 A2.N.RN.A.1 Explain how the definition of the meaning of rational exponents follows from extending the properties of integer exponents to those values, allowing for a notation for radicals in terms of rational exponents. A2.N.RN.A.2 Rewrite expressions involving radicals and rational exponents using the properties of exponents. 	 Objective(s): Students will simplify expressions with rational exponents. Students will calculate quantities that involve positive and negative rational exponents. 	Pearson 6.4 Rational Exponents Glencoe 7.6 Rational Expressions Select from the following resources to ensure that the intended outcome and level of rigor of the standards are met. Eureka Math Module 3 Lessons 3-4 Additional Resources: TN Task Arc –Investigating Exponents TI Classroom Activity: Rational Exponents Bacterial Growth Illustrative Math: Evaluating a Special Exponential A2.R.RN.A.1 Illustrative Math: Checking a Calculation of a Decimal A2.N.RN.A.2 Math Shell: Evaluating Statements About Radicals* *Not accessible via SCS server HS Flip Book with examples of each Standard	When is it necessary to use absolute value bars when simplifying radicals? Resources in the Pearson textbook: " Solve it," Think About a Plan, Find the Errors, Multiple word problems, Reasoning question, Compare/contrast question, Open-ended questions, and Connections to other real world topics and/or other subjects
 Domain: Reasoning with Equations and Inequalities Cluster: Represent and solve equations and inequalities graphically. A2.A.REI.D.6 Explain why the x-coordinates of the points where the graphs of the equations y = f(x) and y = g(x) intersect are the solutions of the 	 Essential Question(s): How do you determine the inverse you need to use when solving radical equations? Objective(s): Students will solve square root and other radical equations. Students factor certain forms of 	Use the textbook resources to address procedural fluency. Pearson 6.5 Solving Square Root and Other Radical Equations	Vocabulary Radical equation, square root equation Writing in Math Why does squaring both sides of a square root equation not always create an equivalent equation?
equation $f(x) = g(x)$; find the approximate solutions using technology. \bigstar Include	polynomial expressions by using the structure of the polynomials.	Glencoe 7.7 Solving Radical Equations and Inequalities	



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 cases where f(x) and/or g(x) are linear, polynomial, rational, absolute value, exponential, and logarithmic functions. Domain: Reasoning with Equations and Inequalities Cluster: Represent and solve equations and inequalities graphically. A2.A.REI.A.1 Explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method. Domain: Reasoning with Equations and Inequalities Cluster: Represent and solve equations and inequalities graphically. A2.A.REI.A.2 Solve rational and radical equations in one variable, and identify extraneous solutions when they exist. Domain: Creating Equations Cluster: Create equations that describe numbers or relationships. A2.A.CED.A.1 Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and rational and exponential functions. A2.A.CED.A.2 Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations. 	 Students use the structure of polynomials to identify factors. Students know and apply the remainder theorem and understand the role zeros play in the theorem. Students develop facility in solving radical equations. Students solve rational equations, monitoring for the creation of extraneous solutions. Students solve word problems using models that involve rational expressions. Students solve simple radical equations and understand the possibility of extraneous solutions. They understand that care must be taken with the role of square roots so as to avoid apparent paradoxes. Students explain and justify the steps taken in solving simple radical equations. 	Select from the following resources to ensure that the intended outcome and level of rigor of the standards are met. Eureka Math Module 3 Lesson 16 Module 1 Lesson 26 -29 Module 1 Lesson 19 Additional Resources: e Math instruction: Unit 8 Illustrative Math: Zero Product Property 1 A2 A RELA.1 Illustrative Math: Zero Product Property 2 A2.RELA.1 Illustrative Math: Zero Product Property 3 Illustrative Math: Zero Product Property 3 Illustrative Math: Zero Product Property 3 Illustrative Math: Basketball A2 A RELA.2 Real Number Property Rules HS Flip Book with examples of each Standard



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TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUP	PORT & RESOURCES
 Domain: Building Functions Cluster: Build new functions from existing function. A2. F.BF.B.4a Find inverse functions. a. Find the inverse of a function when the given function is one-to-one. Domain: Building Functions Cluster: Build a function that models a relationship between two quantities. A2. F.BF.A.1 Write a function that describes a relationship between two quantities. A2. F.BF.A.1 Write a function that describes a relationship between two quantities. ★ a. Determine an explicit expression, a recursive process, or steps for calculation from a context. For example, given cost and revenue functions, create a profit function. For A2.F.BF.A.1a: i) Tasks have a real-world context. ii) Tasks may involve linear functions, quadratic functions, and exponential functions. Cluster: Analyze functions using different representations. A2.F.IF.B.3 Graph functions expressed symbolically and show key features of the graph, by hand and using technology.★ a. Graph square root, cube root, and piecewise defined functions, 	Essential Question(s): How can the horizontal line test help you determine if an inverse will be a function? Why is the square root function only half of its' quadratic inverse? Objective(s): • Students will find the inverse of a relation or function. • Students will graph square root and other radical functions. • Students will write explicit polynomial expressions for sequences by investigating successive differences of those sequences.	Use the textbook resources to address procedural fluency. Pearson 6.7 Inverse Relations and Functions 6.8 Graphing Radical Functions 6.8 Graphing Radical Functions 7.2 Inverse Functions and Relations 7.3 Square Root Functions and Operations Select from the following resources to ensure that the intended outcome and level of rigor of the standards are met. Eureka Math Module 1 Topic A Lesson 1 Additional Resources: Math Nspired: Functions and Inverses What is the Inverse of a Function? HS Flip Book with examples of each Standard	Vocabulary Inverse relation, one-to-one function, Radical function, square root function What type of function breaks the rule: The range of the relation is the domain of the inverse? The domain of the relation is the range of the inverse? Why do you have to restrict the domain of a quadratic function's inverse?



Quarter 2

TN STATE STANDARDS	CONTENT		PPORT & RESOURCES
including step functions and absolute			
value functions.	Europential and Las	novithuria Europtiana	
 Domain: Linear, Quadratic, and Exponential Models Cluster: Conduct and compare linear, quadratic, and exponential models and solve problems. A2. F.LE.A.1 Construct linear and exponential functions, including arithmetic and geometric sequences, given a graph, a description of a relationship, or input-output pairs. Domain: Linear, Quadratic, and Exponential Models Cluster: Interpret expressions for functions in terms of the situation they model. A2. F.LE.B.3 Interpret the parameters in a linear or exponential function in terms of a context. For example, the equation y = 5000 (1.06)× models the rising population of a city with 5000 residents when the annual growth rate is 6 percent. What will be the effect on the equation if the city's growth rate was 7 percent instead of 6 percent? Domain: Interpreting Functions 	 Exponential and Log (Allow approximately 3 weeks for instruct Essential Question(s): How do you distinguish between an exponential function being a growth or decay? Objective(s): Students will model exponential growth and decay. Students will graph y=b^x and observe it as the parent exponential function, then graph y=ab^x and observe how the value of a either stretches or compresses the graph of y=b^x. Students will graph y=ab^x and y=ab^(x-h) and observe that y=ab^(x-h) is the same as the vertical stretch or compression of y=(ab-h)b^x. Students will observe that y=ab^x +k shifts the horizontal asymptote from y=0 to y=k. Graph y=log_bx as the parent logarithmic function, then graph y=alog_b(x-h) + k and observe: 1) how the value of a either stretches or compresses the graph of y=log_bx by h and the horizontal shift of y=log_bx by k. Students gather experimental data and determine which type of function is best to model the data. 		Vocabulary Exponential function, exponential growth, exponential decay, asymptote, growth factor, decay factor Writing in Math What is the y-intercept of an exponential function with no stated a value? Resources in the Pearson textbook: " Solve it," Think About a Plan, Find the Errors, Multiple word problems, Reasoning question, Compare/contrast question, Open-ended questions, and Connections to other real world topics and/or other subjects
Cluster: Analyze functions using different representations.	interpret expressions for exponential functions.		
	 Students develop a general growth/decay rate formula in the context of compound interest. 		



Quarter 2

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT & RESOURCES
 A2.F.IF.B.3 Graph functions expressed symbolically and show key features of the graph, by hand and using technology. * a. Graph square root, cube root, and piecewise defined functions, including step functions and absolute value functions. c. Graph exponential and logarithmic functions, showing intercepts and end behavior. Domain: Interpreting Functions Cluster: Analyze functions using different representations. A2.F.IF.B.5 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). 	 Students compute future values of investments with continually compounding interest rates. Students study transformations of the graphs of logarithmic functions and learn the standard form of generalized logarithmic and exponential functions. Students use the properties of logarithms and exponents to produce equivalent forms of exponential and logarithmic expressions. In particular, they notice that different types of transformations can produce the same graph due to these properties. 	
 Domain: Interpreting Functions Cluster: Interpret functions that arise in applications in terms of the context. A2. F.IF.A.2 Calculate and interpret the average rate of change of a function (presented <u>symbolically</u> or as a table) over a specified interval. Estimate the rate of change from a graph. Domain: Reasoning with Equations and Inequalities Cluster: Represent and solve equations graphically. A2.A.REI.D.6 Explain why the x- 		



Quarter 2

Algebra II

★(star) Modeling

Standard/Domain

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUP	PORT & RESOURCES
coordinates of the points where the graphs of the equations $y = f(x)$ and $y = g(x)$ intersect are the solutions of the equation f(x) = g(x); find the approximate solutions using technology. \star Include cases where f(x) and/or $g(x)$ are linear, polynomial, rational, absolute value, exponential, and logarithmic functions. Domain: Interpreting Categorical and Quantitative Data			
Cluster: Summarize, represent, and interpret data on a single count or measurement. variable			
A2. S.ID.B.2 Represent data on two quantitative variables on a scatter plot, and describe how the variables are related. Use given functions or choose a function suggested by the context. Emphasize linear, quadratic, and exponential models.			
 Fit a function to the data; use functions fitted to data to solve problems in the context of the data. 			
A2 .F.BF.B.3 Identify the effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx), and f(x + k) for specific values of k (both positive and negative); find the value of k given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology.			
Domain: Linear, Quadratic, and Exponential Models Cluster : Conduct and compare linear,	Essential Question(s): Why is y=ae ^x considered to be an exponential function?	Use the textbook resources to address procedural fluency.	Vocabulary Natural base exponential function, continuously compounded interest.



Quarter 2

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUP	PORT & RESOURCES
 quadratic, and exponential models and solve problems. A2.F.LE.A.1 Construct linear and exponential functions, including arithmetic and geometric sequences, given a graph, a description of a relationship, or input-output pairs. Domain: Linear, Quadratic, and Exponential Models Cluster: Interpret expressions for functions in terms of the situation model. A2.F.LE.B.3 Interpret the parameters in a linear or exponential function in terms of a context. For example, the equation y = 5000 (1.06)^x models the rising population of a city with 5000 residents when the annual growth rate is 6 percent. What will be the effect on the equation if the city's growth rate was 7 percent instead of 6 percent? Domain: Seeing Structure in Expressions Cluster: Interpret the structure of an expression to identify ways to rewrite it. Domain: Seeing Structure in Expressions Cluster: Use expressions in equivalent forms to solve problems. A2.A.SSE.B.3 Recognize a finite geometric series (when the common ratio is not 1), and use the sum formula to solve problems in context. 		Pearson 7.2 Properties of Exponential Functions Select from the following resources to ensure that the intended outcome and level of rigor of the standards are met. Additional Resources: TN Task Arc – Natural Order of Things Illustrative Math: The Bank Account Math Shell: Making Money * Not accessible via SCS server HS Flip Book with examples of each Standard	<section-header>Writing in MathWrite three different examples of exponential functions that stretch, compress, and reflect. Explain why each function moves the way that it does.</section-header>
			SCS 2019/2020



Quarter 2

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUP	PORT & RESOURCES
 Domain: Interpreting Functions Cluster: Analyze functions using different representations. A2. F.IF.B.4 Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function. a. Know and use the properties of exponents to interpret expressions for exponential functions. For example, identify percent rate of change in functions such as y = 2^x, y = (1/2)^x, y = 2^{-x}, y = (1/2)^{-x} Domain: Building Functions Cluster: Build a function that models a relationship between two quantities. A2.F.BF.A.1 Write a function that describes a relationship between two quantities. b. Combine standard function types using arithmetic operations. 			
 Domain: Linear, Quadratic, and Exponential Models Cluster: Construct and compare linear, quadratic, and exponential models and solve problems. A2. F.LE.A.2 . For exponential models, express as a logarithm the solution to ab^{ct} 	 Essential Question(s): The exponential function y=b^x is one-to- one, so its inverse x=b^y is a function. To express y as a function of x for the inverse, write y=log_bx. Logarithms are exponents. In fact, log_ba =c if and only if b^c=a. 	Use the textbook resources to address procedural fluency. Pearson 7.3 Logarithmic Functions as Inverses Glencoe	Vocabulary Logarithm, logarithmic function, common logarithm, logarithmic scale Writing in Math How are the domain and range related from
= d where a, c, and d are numbers and the base b is 2, 10, or e; evaluate the logarithm using technology.	 Objective(s): Students will write and evaluate logarithmic expressions. Students will graph logarithmic functions. 	8.3 Logarithms and Logarithmic Functions Select from the following resources to ensure that the intended outcome and	the exponential function to the logarithmic function?



Quarter 2

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT & RESOURCES
Domain: Interpreting Functions	• Students will graph y=log _b x as the parent	level of rigor of the standards are met.
Cluster: Interpret functions that arise in	logarithmic function, then graph y=alog _b (x-h)	
applications in terms of the context.	+ k and observe: 1) how the value of a either	Eureka Math
	stretches or compresses the graph of y=log _b x	Module 3 Lesson 19 (LE.A.2)
A2. F.IF.A.1 For a function that models a	and 2) the vertical shift of $y=log_b x$ by h and	Module 3 Lesson 18, 20, 21 (F.IF.A.1)
relationship between two quantities, interpret	the horizontal shift of $y=\log_b x$ by k.	Module 1 Lesson 14-16 (F.IF.B.3)
key features of graphs and tables in terms of	• Students construct a table of logarithms	
the quantities, and sketch graphs showing key	base 10 and observe patterns that indicate properties of logarithms.	Additional Resources:
features given a verbal description of the	 Students construct a table of logarithms 	e Math instruction: Unit 4
relationship. ★	base 10 and observe patterns that	Math Vision Project 2014- Logarithmic Functions
A2.F.IF.A.2 Calculate	indicate properties of logarithms.	(various)
and interpret the average rate of change of a	• Students justify properties of logarithms	HS Flip Book with examples of each Standard
function (presented symbolically or as a table)	using the definition and properties	
over a specified interval. Estimate the rate of	already developed.	
change from a graph. ★	• Students work with and interpret logarithms	
	with irrational values in preparation for	
Domain: Interpreting Functions	graphing logarithmic functions.	
Cluster: Analyze functions using different	 Students graph the functions f(x) = log(x), g(x) = log2(x), and h(x) = ln(x) by hand and 	
representations.	identify key features of the graphs of	
	logarithmic functions.	
A2. F.IF.B.3 Graph functions expressed	 Students compare the graph of an 	
symbolically and show key features of the	exponential function to the graph of its	
graph, by hand and using technology. \bigstar	corresponding logarithmic function.	
b. Graph exponential and	Students note the geometric relationship	
logarithmic functions, showing	between the graph of an exponential function	
intercepts and end behavior.	and the graph of its corresponding	
	logarithmic function.	
Domain: Building Functions	Students understand that the change of base	
Cluster: Build new functions from existing	property allows us to write every logarithm	
functions.	function as a vertical scaling of a natural	
> A2. F.BF.B.3 Identify the effect on	logarithm function.	
the graph of replacing $f(x)$ by $f(x) +$	 Students graph the natural logarithm function and understand its relationship to other base 	
k, k f(x), f(kx), and f(x + k) for	b logarithm functions. They apply	
specific values of k (both positive	bioganum runcuono. Tricy apply	



Quarter 2

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUP	PORT & RESOURCES
and negative); find the value of k given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology.	 transformations to sketch the graph of natural logarithm functions by hand. Students apply knowledge of exponential and logarithmic functions and transformations of functions to a contextual situation. 		
 Domain: Seeing Structure in Expressions Cluster: Write expressions in equivalent forms to solve problems. A2. A.SSE.B.2 Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression. ★ a. Use the properties of exponents to rewrite expressions for exponential functions. 	Essential Question(s): What are the distinguishing features of the properties of logarithms: product property, quotient property, and power property? Objective(s): • Students will use the properties of logarithms.	Use the textbook resources to address procedural fluency. Pearson 7.4 Properties of Logarithms Glencoe 8.5 Properties of Logarithms 8.6 Common Logarithms Select from the following resources to ensure that the intended outcome and level of rigor of the standards are met. Additional Resources <u>e Math instruction: Unit 4</u> Illustrative Math Tasks: SSE.B.3	Vocabulary Change of base formula Writing in Math When would you need to use a Change of Base formula? What does the logarithm look like?
 Domain: Creating Equations Cluster: Create equations that describe numbers or relationships. A2.A.CED.A.1 Create equations and inequalities in one variable and use them to solve problems. Domain: Interpreting Functions Cluster: Analyze functions using different representations. A2. F.IF.B.4. Write a function defined by an expression in different but equivalent forms to 	Essential Question(s): How is the relationship between exponents and logarithms used to solve problems? Objective(s): • Students will solve exponential and logarithmic equations.	Use the textbook resources to address procedural fluency. Pearson 7.5 Exponential and Logarithmic Equations Glencoe 8.2 Solving Exponential Equations and Inequalities 8.4 Solving Logarithmic Equations and Inequalities 8.8 Using Exponential and Logarithmic Functions	Vocabulary Exponential equation, logarithmic equation Writing in Math How can use the log of any base to solve an exponential equation?



Quarter 2

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUP	PORT & RESOURCES
reveal and explain different		Select from the following resources to	
properties of the function.		ensure that the intended outcome and	
a. Use the properties of		level of rigor of the standards are met.	
exponents to interpret expressions		Eureka Math	
for exponential functions.		Module 3 Topic B Lesson 7	
		Module 3 Topic D Lesson 27	
Domain: Quantities			
Cluster: Reason quantitatively and use		Additional Resources:	
units to solve problems.		Math Shell: Multiplying Cells *	
> A2. N.Q.A.1 Identify, interpret, and		Medical Diagnosis Task	
justify appropriate quantities for the		Illustrative Math: Compounding with a 100% Interest Rate	
purpose of descriptive modeling.		Compounding with a 5% Interest Rate	
		Real Number Property Rules	
Domain: Reasoning with Equations and	Essential Question(s):	*Not accessible via SCS server	Vocabulary
Inequalities	How can you use the relationship between $y=e^{x}$	Use the textbook resources to address	Natural logarithmic function
Cluster: Represent and solve equations	and $y = \ln x$ to solve exponential and logarithmic	procedural skill and fluency.	
graphically.	equations?	Pearson	Writing in Math
g		7.6 Natural Logarithms	Can In 5 +log (base 2) 10 be written as a
■ A2.A.REI.D.6 Explain why the x-coordinates	Objective(s):		single log?
of the points where the graphs of the equations	Students will evaluate and simplify natural	Glencoe	
y = f(x) and $y = g(x)$ intersect are the solutions	logarithmic expressions	8.7 Base e and Natural Logarithms	
of the equation $f(x) = g(x)$; find the approximate	 Students will solve equations using natural 	5	
solutions using technology. ★	logarithms.	Select from the following resources to	
		ensure that the intended outcome and	
Domain: Linear, Quadratic and Exponential		level of rigor of the standards are met.	
Models		-	
Cluster: Construct and compare linear,		Additional Resources:	
quadratic and exponential models and solve		Illustrative Math: Bacterial Populations	
problems. A2.F.LE.A.2 For exponential models,		Illustrative Math: Carbon 14 Dating	
express as a logarithm the solution to ab ^{ct}			
= d where a, c, and d are numbers and		Illustrative Math: Exponential Kiss	
the base b is 2, 10, or e; evaluate the		Illustrative Math: Identifying Exponential	
logarithm using technology.		Functions	
0 · · · 0 · · · · 0			



Quarter 2

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT & RESOURCES
 Domain: Interpreting Functions Cluster: Interpret functions that arise in applications in terms of the context. A2.F.IF.A.1 For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. ★ Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; and end behavior. A2.F.IF.A.2 Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval. Estimate the rate of change from a graph. Domain: Interpreting Functions Cluster: Analyze functions using different representations. A2.F.IF.B.3 Graph functions expressed symbolically and show key features of the graph, by hand and using technology. ★ e. Graph exponential and logarithmic functions, showing intercepts and end behavior. 		HS Flip Book with examples of each Standard



Quarter 2

		RESOURCE TOOLKIT	
Textbook Resources		Standards	Videos
Pearson: http://www.pearsonsuccessnet.com Online Tools Homework Video Tutors Lesson Quizzes	Glencoe: https://connected.mcgraw- hill.com/connected/login.do Online Tools Chapter Animation Chapter Quizzes & Tests Editable Worksheets Anticipation Guides Personal Tutors Lesson PowerPoints Enrichment Masters Graphing Calculator Activities	Common Core Standards - Mathematics Common Core Standards - Mathematics Appendix A Edutoolbox (formerly TNCore) The Mathematics Common Core Toolbox PARCC Blueprints and Test Specifications FAQ CCSS Toolbox PARCC High School Math Tasks TICommonCore.com TN Department of Education Math Standards PARCC Practice Test HS Flip Book with Examples of each Standard JMAP Instructional Focus Document (Algebra II) TN Department of Education Assessment Live Binder	Brightstorm Teacher Tube The Futures Channel Khan Academy Math TV Lamar University Tutorial e Math Instruction
Additional Sites <u>TN Dept. of Education Assessm</u> <u>UT Dana Center</u> <u>Mars/Math Shell Tasks* (Not acceled to the second s</u>	eccessible via SCS server) essible via SCS server) ments	Interactive Manipulatives Illuminations (NCTM) National Math Resources NASA Space Math Math Vision Project Purple Math ACT & SAT TN ACT Information & Resources ACT College & Career Readiness Mathematics Standards ACT Academy SAT Connections SAT Practice from Khan Academy	Calculator Math Nspired Texas Instrument Resources Casio Activities Desmos SEL Resources SEL Connections with Math Practices SEL Core Competencies The Collaborative for Academic, Social, and Emotional Learning (CASEL)



Quarter 2

	Quart		AISCO	•							
	October 2019										
Suggested Lessons for the Week	Monday	Tuesday	Wednesday	Thursday	Friday	Notes:					
Pearson 4.8. 4.9 emathInstruction – Unit 9 Selected Tasks: IM; TN Tasks	30	1	2	3	4	Note: Please use this suggested pacing as a guide. It is understood that teachers may be up to 1 week ahead or 1 week behind depending on their					
Remediation and Review;	7	8	9	10	11 1/2 day students	individual class needs. Note: There are only eight weeks in the quarter which					
Assessment					Quarter 1 Ends	includes semester exams. Monitor your pacing so that					
	14	15	16	17	18	suggested content is					
				covered.							
Pearson 5.1, 5.2, Selected Tasks, eMath- Unit 10, Lessons 1 & 2; Remediation, Review & Assessment	21 Begin Polynomials and Polynomial Functions Quarter 2 Begins	21	23	24	25						
Pearson 5.3, Eureka Math, Module 1-Lessons 11 & 14, Selected Tasks; Remediation, Review & Assessment	28	29	30	31 Halloween	1						



				Novembe	er 2019		
Suggested Lessons for the Week	Мо	nday	Tuesday	Wednesday	Thursday	Friday	Notes:
						1	Note: Please use this suggested pacing as a guide. It is understood that teachers may be up to 1 week ahead or 1 week behind depending on their
Pearson 5.4, 5.5, EM Module 1-Topic B, Lesson 19, Selected Tasks; Remediation, Review & Assessment		4	5	6	7	8 1/2 day students	individual class needs. Note: There are only eight weeks in the quarter which
Pearson 5.8, 5.9, EM Module 1 Topic B Lessons 14-16, Selected Tasks, Remediation, Review & Assessment	Vetera	11 In's Day	12	13	14	15	includes semester exams. Monitor your pacing so that suggested content is covered.
Pearson 6.4, 6.5, EM Module 3 Topic A Lessons 3-4, eMath-Unit 8, Selected Tasks; Remediation, Review & Assessment	Functi	18 Radical ons and Exponents	29	20	21	22	
		25	26	27	28	29	
			Tha	anksgiving E	Break		
	FLEX		FLEX				



Greetinge jace 1961	Quarte	r 2	Algebra II			
			December	· 2019		
Suggested Lessons for the Week	Monday	Tuesday	Wednesday	Thursday	Friday	Notes:
Pearson 6.7, 6.8, EM Module 1 Topic A Lesson 1, Selected Tasks Pearson 7.1, eMath-Unit 4, EM Module 3 Topic D Lessons 20, 23, 26, Selected Tasks; Remediation, Review & Assessment	ł	3	4 Begin Exponential and Logarithmic Functions	5	6	Note: Please use this suggested pacing as a guide. It is understood that teachers may be up to 1 week ahead or 1 week behind depending on their individual class needs.
Pearson 7.3, 7.4, 7.5, 7.6, EM Module 3 Lessons 18- 19; Module 1 Lessons 14- 16; EM Module 3 Lessons 7 & 27; Selected Tasks; Remediation & Review	9	10	11	12	13	Note: There are only eight <u>weeks</u> in the quarter which includes semester exams. Monitor your
Ļ	16	17	18 Semester Exams	19 Semester Exams	20 ½ day students Quarter 2 Ends Semester Exams	pacing so that suggested content is covered.
	23	24	25	26	27	
		Wint	er Break			
	30	31	1	2	3	
	Winter Bre	eak				