Algebra 2

Texas Essential Knowledge and Skills (TEKS) Overview

This document provides an overview of the TEKS coverage in the Texas Math Solution for Algebra 2.

Module	Topic	L#	Lesson Title	Lesson Subtitle	2A.2A	2A.2B	2A.2C	2A.2D	2A.3A
Module 1: Exploring Patterns in Linear and Quadratic Relationships	Topic 1: Extending Linear Relationships	1	Gauss in Das Haus	Solving Systems of Equations					○
		2	Make the Best of It	Optimization					○
		3	Systems Redux	Solving Matrix Equations					
		4	Putting the V in Absolute Value	Defining Absolute Value Functions and Transformations	○				
		5	Play Ball!	Absolute Value Equations and Inequalities					
	Topic 2: Exploring and Analyzing Patterns	1	Patterns: They're Grrrrrowing!	Observing Patterns					
		2	The Cat's Out of the Bag!	Generating Algebraic Expressions					
		3	Samesies	Comparing Multiple Representations of Functions					
		4	True to Form	Forms of Quadratic Functions					○
		5	The Root of the Problem	Solving Quadratic Equations					
		6	*i* Want to Believe	Imaginary and Complex Numbers					
	Topic 3: Applications of Quadratics	1	Ahead of the Curve	Solving Quadratic Inequalities					
		2	All Systems Go!	Systems of Quadratic Equations					○
		3	The Ol' Switcharoo	Inverses of Linear and Quadratic Functions		○	○		
		4	Modeling Behavior	Using Quadratic Functions to Model Data			○		
		5	Going the Equidistance	Equation of a Parabola					
Module 2: Analyzing Structure	Topic 1: Composing and Decomposing Functions	1	Blame It on the Rain	Modeling with Functions					
		2	Folds, Turns, and Zeros	Transforming Function Shapes	○				
		3	Planting the Seeds	Exploring Cubic Functions	○				
		4	The Zero's the Hero	Decomposing Cubic Functions	○				
	Topic 2: Characteristics of Polynomial Functions	1	Odds and Evens	Power Functions (P.2D)**					
		2	Math Class Makeover	Transformations of Polynomial Functions	○				
		3	Poly-Frog	Key Characteristics of Polynomial Functions	○				
		4	Build-a-Function	Building Cubic Functions	○				
		5	Leveled Up	Analyzing Polynomial Functions	○				
Module 3: Developing Structural Similarities	Topic 1: Relating Factors and Zeros	1	Satisfactory Factoring	Factoring Polynomials to Identify Zeros	○				
		2	Conquer Division	Polynomial Division					
		3	Closing Time	The Closure Property					
	Topic 2: Polynomial Models	1	Not a Case of Mistaken Identity	Exploring Polynomial Identities					
		2	Elegant Simplicity	Pascal's Triangle and the Binomial Theorem					
		3	Modeling Gig	Modeling with Polynomial Functions and Data					
Module 4: Extending Beyond Polynomials	Topic 1: Rational Functions	1	Can't Touch This	Introduction to Rational Functions	○				
		2	Sooooo...Close	Transformations of Rational Functions					
		3	Must Be a Rational Explanation	Operations with Rational Expressions					
		4	Thunder. Thun- Thun- Thunder.	Solving Problems with Rational Equations					
		5	16 Tons and What Do You Get?	Solving Work, Mixture, Distance, and Cost Problems					
	Topic 2: Radical Functions	1	Strike That, Invert It	Inverses of Power Functions	○	○	○		
		2	Such a Rad Lesson	Radical Functions	○	●	○	●	
		3	Making Waves	Transformations of Radical Functions	○				
		4	Keepin' It Real	Rewriting Radical Expressions					
		5	Into the Unknown	Solving Radical Equations					
Module 5: Inverting Functions	Topic 1: Exponential and Logarithmic Functions	1	Half-Life	Comparing Linear and Exponential Functions					
		2	Pert and Nert	Properties of Exponential Graphs	○				
		3	Return of the Inverse	Logarithmic Functions	○	●	○		
		4	I Like to Move It	Transformations of Exponential and Logarithmic Functions		●			
		5	Money, Heat, and Climate Change	Modeling Using Exponential Functions					
		6	Drive Responsibly	Choosing a Function to Model BAC					
	Topic 2: Exponential and Logarithmic Equations	1	All the Pieces of the Puzzle	Logarithmic Expressions					
		2	Mad Props	Properties of Logarithms (P.5G)**					
		3	More Than One Way to Crack an Egg	Solving Exponential Equations (P.5G, P.5H, P.5I)**					
		4	Logging On	Solving Logarithmic Equations (P.5G, P.5H, P.5I)**					
		5	What's the Use?	Applications of Exponential and Logarithmic Equations (P.5G, P.5H, P5.I)**					
	Topic 3: Applications of Exponential Functions	1	Series Are Sums	Geometric Series (P.5A)**					
		2	Paint By Numbers	Art and Transformations	○				
		3	This Is the Title of This Lesson	Fractals (AQR.2H, P.5E)**					
End of Course	Formative Assessment	1	Keep Your Eye on the Ball	Performance Task					○
		2	Ride Like the Wind	Performance Task					
		3	The Correct Dose	Performance Task	○				
		4	Bug Off!	Performance Task	○				

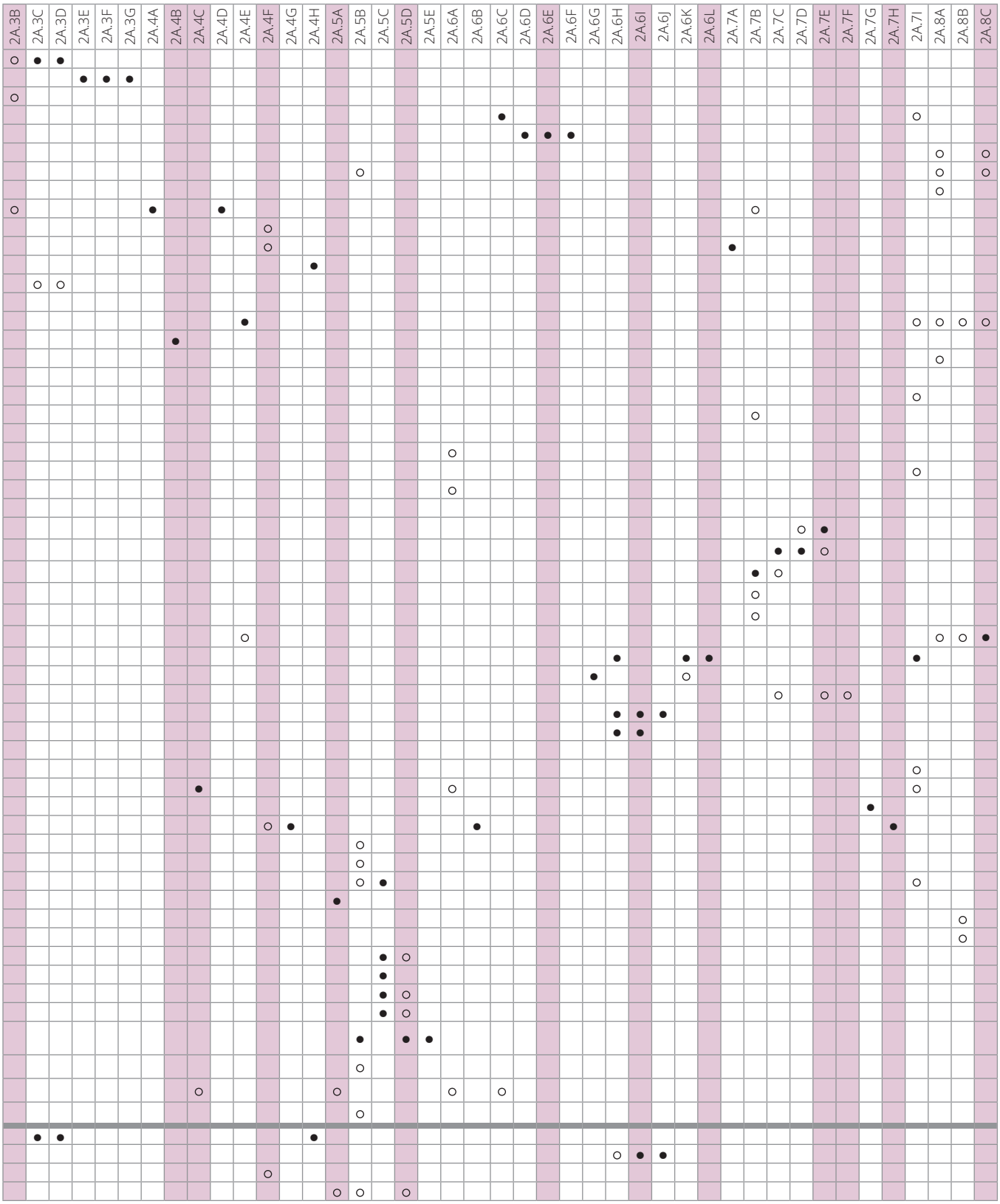
**Some of the content of this topic goes beyond the scope of the course standards. The content is included to enhance students' understanding of mathematics and to provide opportunities for extension.

Purple column indicates Readiness Standard

White column indicates Supporting Standard

○ indicates standard partially covered within the lesson

● indicates standard fully covered within the lesson



Algebra 2 TEKS Summary by Module and Topic	2A.2A	2A.2B	2A.2C	2A.2D	2A.3A	2A.3B	2A.3C	2A.3D	2A.3E	2A.3F	2A.3G	2A.4A	2A.4B	2A.4C	2A.4D	2A.4E	2A.4F	2A.4G	2A.4H	2A.5A
Module 1 TEKS Summary	●		●		●	●	●	●	●	●	●	●	●		●	●	●		●	
M1 Topic 1 TEKS Summary	●		●		●	●	●	●	●	●	●									
M1 Topic 2 TEKS Summary					●	●						●			●		●			
M1 Topic 3 TEKS Summary	●		●		●		●	●					●			●			●	

	2A.2A	2A.2B	2A.2C	2A.2D	2A.3A	2A.3B	2A.3C	2A.3D	2A.3E	2A.3F	2A.3G	2A.4A	2A.4B	2A.4C	2A.4D	2A.4E	2A.4F	2A.4G	2A.4H	2A.5A
Module 2 TEKS Summary	●														●					
M2 Topic 1 TEKS Summary	●														●					
M2 Topic 2 TEKS Summary	●																			

	2A.2A	2A.2B	2A.2C	2A.2D	2A.3A	2A.3B	2A.3C	2A.3D	2A.3E	2A.3F	2A.3G	2A.4A	2A.4B	2A.4C	2A.4D	2A.4E	2A.4F	2A.4G	2A.4H	2A.5A
Module 3 TEKS Summary	●															●				
M3 Topic 1 TEKS Summary	●																			
M3 Topic 2 TEKS Summary																●				

	2A.2A	2A.2B	2A.2C	2A.2D	2A.3A	2A.3B	2A.3C	2A.3D	2A.3E	2A.3F	2A.3G	2A.4A	2A.4B	2A.4C	2A.4D	2A.4E	2A.4F	2A.4G	2A.4H	2A.5A
Module 4 TEKS Summary	●	●	●	●													●	●		
M4 Topic 1 TEKS Summary	●																			
M4 Topic 2 TEKS Summary	●	●	●	●													●	●		

	2A.2A	2A.2B	2A.2C	2A.2D	2A.3A	2A.3B	2A.3C	2A.3D	2A.3E	2A.3F	2A.3G	2A.4A	2A.4B	2A.4C	2A.4D	2A.4E	2A.4F	2A.4G	2A.4H	2A.5A
Module 5 TEKS Summary	●	●	●											●						●
M5 Topic 1 TEKS Summary	●	●	●																	●
M5 Topic 2 TEKS Summary (P.5G, P5H, P.5I)**																				
M5 Topic 3 TEKS Summary (AQR.2H, P.5A, P.5E)**	●													●						●

	2A.2A	2A.2B	2A.2C	2A.2D	2A.3A	2A.3B	2A.3C	2A.3D	2A.3E	2A.3F	2A.3G	2A.4A	2A.4B	2A.4C	2A.4D	2A.4E	2A.4F	2A.4G	2A.4H	2A.5A
End of Course: Formative Assessment	●				●		●	●									●	●	●	

Algebra 2 TEKS Summary by Module	2A.2A	2A.2B	2A.2C	2A.2D	2A.3A	2A.3B	2A.3C	2A.3D	2A.3E	2A.3F	2A.3G	2A.4A	2A.4B	2A.4C	2A.4D	2A.4E	2A.4F	2A.4G	2A.4H	2A.5A
Module 1 TEKS Summary	●		●		●	●	●	●	●	●	●	●	●		●	●	●		●	
Module 2 TEKS Summary	●														●					
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Module 5 TEKS Summary	●	●	●											●						●
End of Course: Formative Assessment	●				●		●	●									●	●	●	

2A.5B	2A.5C	2A.5D	2A.5E	2A.6A	2A.6B	2A.6C	2A.6D	2A.6E	2A.6F	2A.6G	2A.6H	2A.6I	2A.6J	2A.6K	2A.6L	2A.7A	2A.7B	2A.7C	2A.7D	2A.7E	2A.7F	2A.7G	2A.7H	2A.7I	2A.8A	2A.8B	2A.8C
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2A.5B	2A.5C	2A.5D	2A.5E	2A.6A	2A.6B	2A.6C	2A.6D	2A.6E	2A.6F	2A.6G	2A.6H	2A.6I	2A.6J	2A.6K	2A.6L	2A.7A	2A.7B	2A.7C	2A.7D	2A.7E	2A.7F	2A.7G	2A.7H	2A.7I	2A.8A	2A.8B	2A.8C
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2A.5B	2A.5C	2A.5D	2A.5E	2A.6A	2A.6B	2A.6C	2A.6D	2A.6E	2A.6F	2A.6G	2A.6H	2A.6I	2A.6J	2A.6K	2A.6L	2A.7A	2A.7B	2A.7C	2A.7D	2A.7E	2A.7F	2A.7G	2A.7H	2A.7I	2A.8A	2A.8B	2A.8C
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