Algebra 1

Texas Essential Knowledge and Skills (TEKS) Overview

This document provides an overview of the TEKS coverage in the Texas Math Solution for Algebra 1.

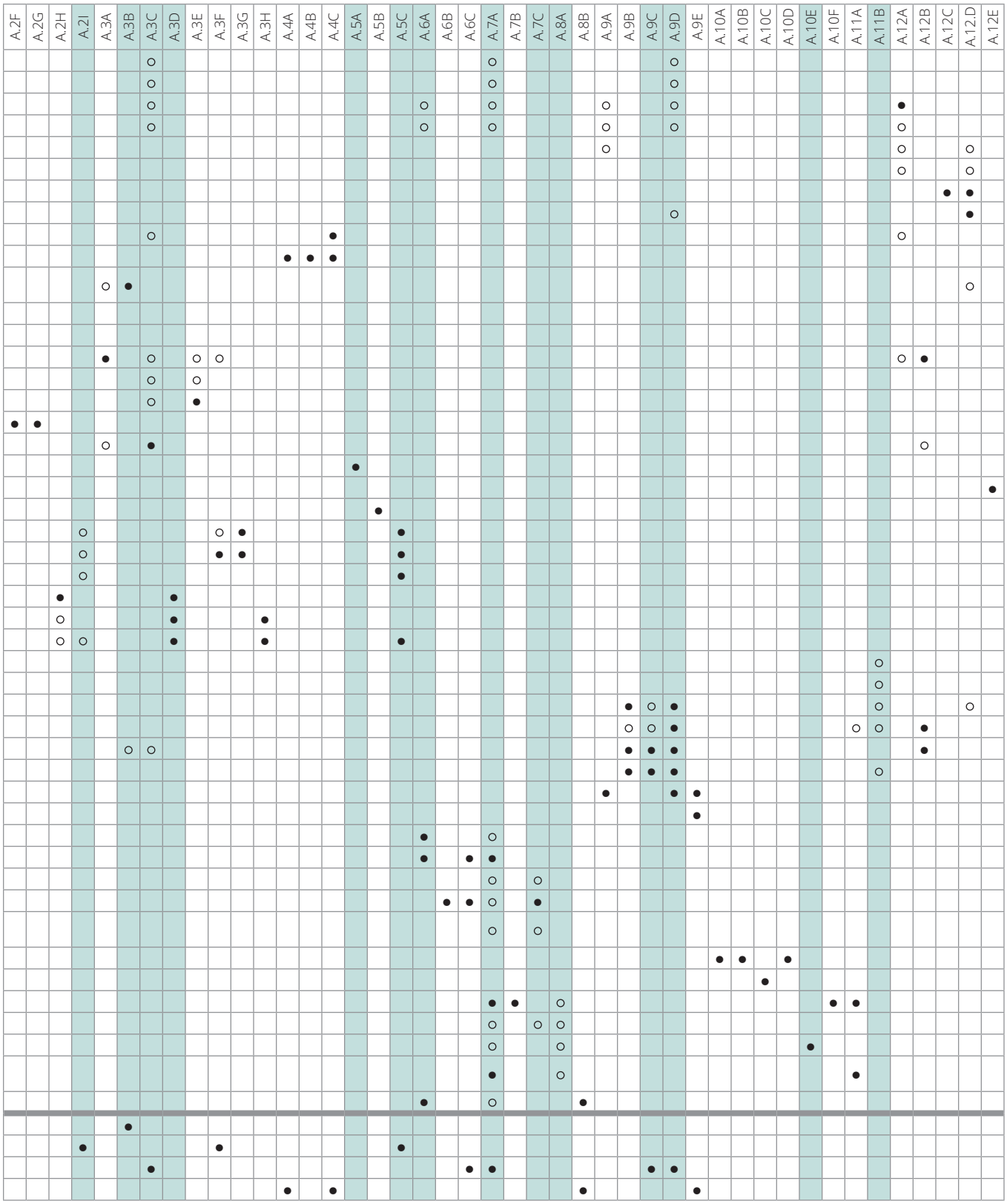
Module	Topic	L#	Lesson Title	Lesson Subtitle	A.2A	A.2B	A.2C	A.2D	A.2E
Module 1: Searching for Patterns	Topic 1: Quantities and Relationships	1	A Picture Is Worth a Thousand Words	Understanding Quantities and Their Relationships					
		2	A Sort of Sorts	Analyzing and Sorting Graphs					
		3	F of X	Recognizing Functions and Function Families	○				
		4	Function Families for 2000, Alex	Recognizing Functions by Characteristics	○				
	Topic 2: Sequences	1	Is There a Pattern Here?	Recognizing Patterns and Sequences					
		2	The Password Is . . . Operations!	Arithmetic and Geometric Sequences					
		3	Did You Mean: *Recursion*?	Determining Recursive and Explicit Expressions from Contexts					
		4	3 Pegs, N Discs	Modeling Using Sequences					
	Topic 3: Linear Regressions	1	Like a Glove	Least Squares Regressions					
		2	Gotta Keep It Correlatin'	Correlation					
Module 2: Exploring Constant Change	Topic 1: Linear Functions	1	Connecting the Dots	Making Connections Between Arithmetic Sequences and Linear Functions	○	○	○		
		2	What's the Point?	Point-Slope Form of a Line		○	○		
		3	The Arts Are Alive	Using Linear Equations		○	●		
		4	Fun Functions, Linear Ones	Making Sense of Different Representations of a Linear Function			●	●	
		5	Move It!	Transforming Linear Functions	○		○		●
		6	Get a Move On!	Vertical and Horizontal Transformations of Linear Functions	○		○		
		7	Amirite?	Determining Slopes of Perpendicular Lines					
		8	Making a Connection	Comparing Linear Functions in Different Forms					
	Topic 2: Linear Equations and Inequalities	1	Strike a Balance	Solving Linear Equations					
		2	It's Literally About Literal Equations	Literal Equations					
		3	Not All Statements Are Made Equal	Modeling Linear Inequalities			○		
	Topic 3: Systems of Equations and Inequalities	1	The County Fair	Using Substitution to Solve Linear Systems					
		2	Double the Fun	Using Graphs to Solve Systems of Equations	○		○		
		3	The Elimination Round	Using Linear Combinations to Solve a System of Linear Equations					
		4	Throwing Shade	Graphing Inequalities in Two Variables					
		5	Working with Constraints	Systems of Linear Inequalities					
		6	Working the System	Solving Systems of Equations and Inequalities					
Module 3: Investigating Growth and Decay	Topic 1: Introduction to Exponential Functions	1	It's a Generational Thing	Properties of Powers with Integer Exponents					
		2	Show What You Know	Analyzing Properties of Powers					
		3	A Constant Ratio	Geometric Sequences and Exponential Functions					
		4	The Power Within	Rational Exponents and Graphs of Exponential Functions					
	Topic 2: Using Exponential Equations	1	Uptown and Downtown	Exponential Equations for Growth and Decay					
		2	Powers and the Horizontal Line	Interpreting Parameters in Context					
		3	Savings, Tea, and Carbon Dioxide	Modeling Using Exponential Functions					
		4	BAC Is Bad News	Choosing a Function to Model Data					
Module 4: Maximizing and Minimizing	Topic 1: Introduction to Quadratic Functions	1	Up and Down or Down and Up	Exploring Quadratic Functions					
		2	Endless Forms Most Beautiful	Key Characteristics of Quadratic Functions					
		3	Parabolas in Motion	Quadratic Function Transformations					
		4	Keep It Moving	Transformations of Quadratic Functions					
		5	You Lose Some, You Lose Some	Comparing Functions Using Key Characteristics and Average Rate of Change					
	Topic 2: Solving Quadratic Equations	1	This Time, With Polynomials	Adding, Subtracting, and Multplying Polynomials					
		2	The Great Divide	Polynomial Division					
		3	Solutions, Plus or Minus	Representing Solutions to Quadratic Equations					
		4	Transforming Solutions	Solutions to Quadratic Equations in Vertex Form					
		5	The Missing Link	Factoring and Completing the Square					
		6	Ladies and Gents, Please Welcome the Quadratic Formula!	The Quadratic Formula					
		7	Fit This Model	Using Quadratic Functions to Model Data					
End of Course	Formative Assessment	1	Health Club Payment Plans	Performance Task		●	●		
		2	Taco Festival	Performance Task					
		3	Randy's Raises	Performance Task			●		
		4	Undergraduate Tuition	Performance Task					

Green column indicates Readiness Standard

White column indicates Supporting Standard

○ indicates standard partially covered within the lesson

● indicates standard fully covered within the lesson



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

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

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

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Module 4 TEKS Summary																		
M4 Topic 1 TEKS Summary																		
M4 Topic 2 TEKS Summary																		

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

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

A.4B	A.4C	A.5A	A.5B	A.5C	A.6A	A.6B	A.6C	A.7A	A.7B	A.7C	A.8A	A.8B	A.9A	A.9B	A.9C	A.9D	A.9E	A.10A	A.10B	A.10C	A.10D	A.10E	A.10F	A.11A	A.11B	A.12A	A.12B	A.12C	A.12.D	A.12E
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