Algebra 1 TEKS Companion Guide TEKS Resource System Alignment

First Semester	Second Semester
1st Nine Weeks	**3rd Nine Weeks**
<u>**Unit 1: Linear Expressions, Equations, and Inequalities (one variable)**</u>	<u>**Unit 7: Quadratic Equations, including Simplification of Numerical Radical Expressions**</u>
A.5A: Solving Linear Equations	**A.8A: Solving Quadratic Equations: Graphs and Tables**
A.5B: Solving Linear Inequalities	**A.8A: Solving Quadratic Equations: Algebraic Methods**
A.10A: Adding and Subtracting Polynomials	A.11A: Adding and Subtracting Polynomials
A.10C: Dividing Polynomials	A.12E: Solving Literal Equations
A.10D: Applying the Distributive Property	
A.12E: Solving Literal Equations	<u>**Unit 8: Investigation and Application of Quadratic Functions**</u>
	A.6A: Domain and Range of Quadratic Functions
<u>**Unit 2: Introduction to Functions**</u>	A.6B: Writing Quadratic Functions
A.2A: Domain and Range of Linear Functions	A.6C: Writing Quadratic Functions from Solutions
A.6A: Domain and Range of Quadratic Functions	**A.7A: Key Attributes of Quadratic Functions**
A.9A: Domain and Range of Exponential Functions	A.7B: Linear Factors and Zeros
A.12A: Relations and Functions	**A.7C: Transformations of Quadratic Functions**
A.12B: Evaluating Functions	A.8B: Modeling with Quadratic Functions
<u>**Unit 3: Investigation of Linear Functions and Inequalities (two variables)**</u>	<u>**Unit 9: Investigation and Application of Exponential Functions**</u>
A.2A: Domain and Range of Linear Functions	A.9A: Domain and Range of Exponential Functions
(A.2B and) **A.2C: Writing Equations of Lines: Graphs and Tables**	A.9B: Interpreting Exponential Functions
(A.2B and) **A.2C: Writing Equations of Lines: Verbal Descriptions**	**A.9C: Writing Exponential Functions**
(A.2E, A.2F, and) A.2G: Equations of Parallel and Perpendicular Lines	**A.9D: Key Features of Exponential Functions**
A.2H: Writing Two-Variable Linear Inequalities	A.9E: Modeling with Exponential Functions
A.3A: Determining Slopes	
A.3B: Calculating Rates of Change	
A.3C: Graphing Linear Functions	
A.3C: Key Features of Linear Functions	
A.3D: Graphing Linear Inequalities (Two Variables)	
A.3E: Transformations of Linear Functions	
2nd Nine Weeks	**4th Nine Weeks**
<u>**Unit 4: Application of Linear Functions**</u>	<u>**Unit 10: Arithmetic and Geometric Sequences**</u>
A.2A: Domain and Range of Linear Functions	**A.3C: Key Features of Linear Functions**
A.2B and **A.2C: Writing Equations of Lines: Graphs and Tables**	**A.9D: Key Features of Exponential Functions**
A.2B and **A.2C: Writing Equations of Lines: Verbal Descriptions**	A.12C and A.12D: Arithmetic and Geometric Sequences
A.2D: Applying Direct Variation	
A.2E, A.2F, and A.2G: Equations of Parallel and Perpendicular Lines	<u>**Unit 11: Making Connections**</u>
A.3A: Determining Slopes	**A.2A: Domain and Range of Linear Functions**

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A.3B: Calculating Rates of Change
A.3C: Graphing Linear Functions
A.4A and A.4C: Writing Linear Functions from Data
A.4B: Association and Causation

Unit 5: Systems of Linear Equations and Inequalities
A.2I: Writing Systems of Linear Equations
A.3F and A.3G: Graphing Systems of Linear Equations
A.3H: Graphing Systems of Linear Inequalities
A.5C: Solving Systems of Linear Equations

Unit 6: Laws of Exponents, Expressions, and Factoring
A.10A: Adding and Subtracting Polynomials
A.10B: Multiplying Polynomials
A.10C: Dividing Polynomials
A.10D: Applying the Distributive Property
A.10E and A.10F: **Factoring Polynomials**
A.11B: Laws of Exponents

(A.2B and) **A.2C: Writing Equations of Lines: Graphs and Tables**
(A.2B and) **A.2C: Writing Equations of Lines: Verbal Descriptions**
A.2E, A.2F, and A.2G: Equations of Parallel and Perpendicular Lines
A.2H: Writing Two-Variable Linear Inequalities
A.2I: Writing Systems of Linear Equations
A.3B: Calculating Rates of Change
A.3C: Graphing Linear Functions
A.3D: Graphing Linear Inequalities (Two Variables)
A.3H: Graphing Systems of Linear Inequalities
(A.4A and) A.4C: Writing Linear Functions from Data
A.5A: Solving Linear Equations
A.5B: Solving Linear Inequalities
A.5C: Solving Systems of Linear Equations
A.6A: Domain and Range of Quadratic Functions
A.6B: Writing Quadratic Functions
A.6C: Writing Quadratic Functions from Solutions
A.7A: Key Attributes of Quadratic Functions
A.7C: Transformations of Quadratic Functions
A.8A: Solving Quadratic Equations: Graphs and Tables
A.8A: Solving Quadratic Equations: Algebraic Methods
A.8B: Modeling with Quadratic Functions
A.9C: Writing Exponential Functions
A.9D: Key Features of Exponential Functions
A.9E: Modeling with Exponential Functions
A.10E and A.10F: **Factoring Polynomials**
A.11B: Laws of Exponents

Unit 12: Cost Comparison Analysis
A.2A: Domain and Range of Linear Functions
(A.2B and) **A.2C: Writing Equations of Lines: Graphs and Tables**
(A.2B and) **A.2C: Writing Equations of Lines: Verbal Descriptions**
A.2H: Writing Two-Variable Linear Inequalities
A.2I: Writing Systems of Linear Equations
A.3B: Calculating Rates of Change
A.3C: Graphing Linear Functions
A.3H: Graphing Systems of Linear Inequalities
(A.4A and) A.4C: Writing Linear Functions from Data
A.5A: Solving Linear Equations
A.5C: Solving Systems of Linear Equations

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