Algebra 1 TEKS Companion Guide TEKS Resource System Alignment

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

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A.3A: Determining Slopes **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	
3rd Six Weeks	**6th Six Weeks**
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**	**Unit 11: Making Connections** **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.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**

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	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**