



Carroll ISD Algebra I

2021-2022 Year-At-A-Glance

	1 st Grading Period	2 nd Grading Period	3 rd Grading Period	4 th Grading Period
Process Standards	A.1 A, B, C, D, E, F, G Math Process Standards, how students understand and learn mathematics, used throughout the course			
TEKS	Unit 1: Writing Expressions, Solving Linear Equations, and Multistep Inequalities A.2A, A.3C, A.5A, A.10D, A.12A, A.12B, B, E Unit 2: Graphing Linear Functions, Slope, Direct Variation, and Arithmetic Sequences A.2A, B, D, A.3A, B, C, A.12D Unit 3: Interpreting Graphs and Functions A.2A, C, A.3A, B, C, A.12A, B Unit 4: Writing Linear Equations, Linear Transformations, Parallel/Perpendicular Lines and Linear Regression A.2B, C, E, F, G, A.3A, C, E, A.4A, B, C	Unit 4: Continued (test grade will go on Term 2) Unit 5: Writing and Solving Linear Inequalities A.2A, H, A.3D, A.5B Unit 6: Systems of Equations and Inequalities A.2I, A.3F, G, H, A.5C Unit 7A: Exponents and Exponential Functions A.9A, B, C, D, E, A.11B, A.12C, D	Unit 7B: Exponents and Exponential Functions A.9A, B, C, D, E, A.11B, A.12C, D Unit 8A: Polynomial Operations A.10A, B, D Unit 8B: Factoring Polynomials A.8A, A.10A, B, D, E, F	Unit 9A: Quadratic Functions and Equations A.6A, B, C, A.7A, B, C, A.8A, B Unit 9B: Quadratic Functions and Equations A.6A, B, C, A.7A, B, C, A.8A, B Unit 10: Radical Expressions and Equations A.10C, A.11A



<p style="text-align: center;">Topic Focus</p>	<p>Unit 1 Variable and Expressions Order of Operations Properties of Numbers Writing and Solving Eq. Literal Equations Solving and Graphing simple Inequalities</p> <p>Unit 2 Graphing Linear Eq. and Zeros of Linear Functions Rate of Change and Slope Direct Variation Proportional vs. Non-Proportional Relationships Arithmetic Sequences</p> <p>Unit 3 Interpreting Graphs Function Notation Relationships and Functions</p> <p>Unit 4 Linear Transformations Writing in Point Slope Form, Slope intercept & Standard Form Parallel and Perpendicular Lines Scatter Plots and Causation Linear Regression</p>	<p>Unit 4 (continued)</p> <p>Unit 5 Compound Inequalities Domain/Range using Compound Inequalities Graphing Inequalities in 2 Variables</p> <p>Unit 6 Graphing Systems of Equations Solve Using Substitution Solve Using Elimination System of Equation Application Problems System of Inequalities</p> <p>Unit 7A Multiply and Divide Exponents Negative Exponents Rational Exponents Scientific Notation</p>	<p>Unit 7B Exponential Functions Growth and Decay Geometric Sequences and Recursive Formulas</p> <p>Unit 8A Operations w/ Polynomials Multiplying Polynomials Special Products</p> <p>Unit 8B Distributive Property (GCF and Grouping) Factoring w/ leading Coefficient of 1 Factoring w/o leading Coefficient of 1 Difference of squares Perfect Square Trinomials Dividing Polynomials</p>	<p>Unit 9A Solving Quadratics by Factoring Solving Quadratics by completing the Square Quadratic Formula</p> <p>Unit 9B Characteristics of Quadratic Functions Transformations and Vertex Form Quadratic Apps and Regression</p> <p>Unit 10 Simplifying Radical Expressions Operations w/ Radical Expressions Pythagorean Theorem</p>
---	--	--	---	--



Additional Resources <i>Textbook:</i> <i>Texas 2016 Edition</i> <i>McGraw-Hill Algebra I</i>	Unit 1 - Ch.1.1 - 1.4, Ch 2.1 - 2.4, 2.8 Unit 2 - Ch 3.1 - 3.6, Ch 1.6-1.7 Unit 3 - Ch 1.6 -1.8 Unit 4 - Ch. 4.1 - 4.6	Unit 5 - Ch 5.1 - 5.4, 5.6 Unit 6 - Ch. 6.1 - 6.6 Unit 7 - Ch. 7.1 - 7.8	Unit 7 - Ch. 7.1-7.8 Unit 8A - Ch. 8.1 - 8.3 Unit 8B - Ch. 8.5 - 8.8, Ch. 9.4 - 9.8	Unit 9 - Ch. 9.1 - 9.6 Unit 10 - Ch. 10.2 - 10.3, Ch. 1.5
--	---	---	--	--

Power Standards: A.2A, A.2C, A.3B, A.5A, A.5C, A.6A, A.7C, A.8A, A.10E, A.11B