



## Carroll ISD Foundations of Algebra II 2021-2022 Year-At-A-Glance

	1 <sup>st</sup> Grading Period	2 <sup>nd</sup> Grading Period	3 <sup>rd</sup> Grading Period	4 <sup>th</sup> Grading Period
<b>Process Standards</b>	M.1 A, B, C, D, E, F, G Math Process Standards, how students understand and learn mathematics, used throughout the course			
<b>TEKS</b>	Unit 1.1  Unit 1.2 M.2A, B, C, M.3A, B, C, D, M.4A, B, C  Unit 1.3 M.9A, B, C, D, E, F, M.10A, B	Unit 2.1  Unit 2.2 M.5A, M.6B, M.7D  Unit 2.3	Unit 3.1 M.2A, C  Unit 3.2 M.2A, C, M.5A, M.9F  Unit 3.3 M.5B  Unit 3.4	Unit 4.1 M.6C, D, M.7A  Unit 4.2 M.6A, B, M.7B, C, D, M.8A, B, C  Unit 4.3 M.5C
<b>Topic Focus</b>	Unit 1.1 Review <b>Mathematical Foundations</b> Whole Numbers Decimal Operations Fraction Operations Solving Equations  Unit 1.2 <b>Business Math/Personal Finance</b> Business Statistics Payroll and Budgeting	Unit 2.1 <b>Real Numbers</b> Plotting and ordered pairs Integer Operations Exponents Real numbers  Unit 2.2 <b>Linear Equations</b> Like Terms Solve all types of equations Solve Proportions	Unit 3.1 <b>Graphing Lines</b> Ordered pairs, solutions Graphing and Intercepts Horizontal and Vertical Lines  Unit 3.2 <b>Lines and Functions</b> Slope Point-Slope Form Slope-Intercept Form Standard Form	Unit 4.1 <b>Radicals and Triangles</b> Simplify Radicals Add and Subtract Radicals Multiply and Divide Radicals Rationalize the Denominator Pythagorean Theorem Right Triangles Trigonometry- Trig Ratios  Unit 4.2 <b>Geometry and Probability</b> Similar Figures Transformations



	<p>Simple and Compound Interest Banking Insurance Home and Auto ownership and financing Stocks, Bonds, Annuities</p> <p><b>Unit 1.3 Data Analysis Project</b> Collect Data Analyze Data Make and present conclusions based on data</p>	<p><b>Unit 2.3 Linear Inequalities</b> Solve Linear Inequalities Graph Linear Inequalities</p>	<p>Graphing Lines in all forms Direct Variation/Inverse Variation Scatterplots Regression</p> <p><b>Unit 3.3 Exponents</b> Product Power to power Quotient Binomial Multiplications-FOIL Polynomial Operations</p> <p><b>Unit 3.4 Polynomials and Factoring</b> Factor out GCF Factor Trinomials Factor by Grouping Vertical Motion Model Applications</p>	<p>Volume and Surface Area Scale Factor Combinations Permutations Theoretical and Experimental Probability</p> <p><b>Unit 4.3 Quadratics</b> Graphing Quadratic Functions Solve Quadratics by factoring Solve Using the quadratic Formula Solve by taking square roots Vertical Motion Model Applications</p>
<p><b>Additional Resources</b></p>	<p>ALEKS</p>			

Power Standards: M.2A, M.2B, M.2C, M.3B, M.5B, M.6C, M.7D, M.9e, M.10A, M.10B