



Algebra 3
Year at a Glance (YAG)
2024-2025



First Semester		Second Semester	
1 st Nine Weeks – 44 days (22 blocks)		3 rd Nine Weeks – 45 days	
TEKS	<p>*Pre-test Diagnostic (1 day)</p> <p>Unit 1: Prerequisites and Thinking Like a Mathematician (6 days) Real numbers and their properties, sets and notation, symbols and meaning, exponents and radical rules.</p> <p>Unit 2: Functions and Their Graphs (16 days)(with project) Analyzing graphs of functions, a library of parent functions, transformations of functions, combinations of functions, composite functions, inverse of functions.</p> <p>Unit 3: Systems of Equations and Inequalities (6 days) Two & Three variable systems of equations using substitution and elimination, systems of inequalities, application of systems with linear programming,</p> <p>Unit 4: Matrices and Determinants (4 days) Matrices and matrix operations, determinants.</p>	TEKS	<p>Unit 9: Rational Functions and Conics (6 days) with activity</p> <p>Unit 10: Radical Functions(6 days) Expressions, simplifying, rationalizing the denominator, solving.</p> <p>Unit 11: Exponents, Logs, and e (7 days)</p> <p>History of Math Project (3 days)</p> <p>Fractions/Practice Accu-placer (5 days)</p>
2 nd Nine Weeks – 43 days		4 th Nine Weeks – 45 days	
TEKS	<p>Unit 5: Deeper Exploration of Quadratic Functions (6 days) Factoring, quadratic formula, completing the square, solving.</p> <p>Unit 6: Complex Numbers(6 days) Imaginary numbers, complex operations, complex numbers & quadratics.</p> <p>Unit 7: Polynomials and Factoring (12 days) factoring with degree 3, polynomial and power functions, Division and rational zeros theorem. Applications.</p> <p>Unit 8: Modeling, Data Analysis, and Piecewise Functions (8 days)</p> <p>Semester Exam Review (2 days)</p> <p>Semester Exams (4 days)</p>	TEKS	<p>Unit 12: Right Triangles and Trig (8 days)</p> <p>Trigonometry full review/tying it all together (20 days)</p> <p>Final Project (6 days)</p> <p>*Post-Test Diagnostic (1 day)</p> <p>Semester Exam Review (2 days)</p> <p>Semester Exams</p>



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