

Algebra 2

1st Nine Weeks	2nd Nine Weeks	3rd Nine Weeks	4th Nine Weeks
Systems of equations and inequalities Graph Linear Systems Solve systems using elimination and substitution 2 variables Variables squared 3 variables Applications systems Write equations solve/state if reasonable TEST 1	Solve quadratics vocabulary Standard to vertex form solve by factoring TEST 1 More quadratic solving simplify radicals Complex solutions Quadratic formula Square root method Complete the square Complex solutions solve, chose best method solve linear with quadratic TEST 2 complex number operations simplify i add, subtract and multiply complex numbers calculator techniques TEST 3 semester Review Semester final	Graph Quadratics Vertical parabola a , h , and k Horizontal parabola a , h , and k Mixed parabola Graph square roots Graph cube roots TEST 1 Square and Cube Root Functions square and cube root inequalities Solve square root equations. Identify extraneous solutions Solve cube root equations. Write the inverse of functions square and square roots as inverses one to one TEST 2 exponent properties rational exponents TEST 3	Absolute value functions Graph and transform absolute value a , h , and k Solve Absolute value equations and inequalities in applications TEST 1 Graph and transform exponential and logarithmic functions Rewrite exponential equations as log equations and the reverse. Solve logs and exponentials Natural logs TEST 2 Rational functions exponential growth and decay review factoring simplify rational expressions multiply rational expresstion divide rational expresstion add and subtract rational exp Graph, transform and solve rational functions solve rational equations TEST 3 semester Review Semester final
More systems Solve systems using gaussian method techonology Add, subtract and multiply Long and synthetic division TEST 2	15 days	12 days	25 days
Factor Factor GCF Factor by grouping Factor when $a = 1$ and $a \neq 1$ Difference of 2 squares Mixed Factoring TEST 3	13 days	10 days	5 days