

Algebra II Power Standards

1. Students will understand and apply mathematical concepts and procedures:
 - a. Compute basic operations of integers and fractions without technology
 - b. Use function notation and vocabulary to evaluate and describe characteristics of functions.
 - c. Use multiple methods to solve absolute value and radical functions.
 - d. Model, solve, and graph linear, non-linear and systems of equations/inequalities.
 - e. Construct and describe new functions using transformations of a parent function.
 - f. Use multiple methods to model, solve and identify arithmetic and geometric sequences/series.
 - g. Use multiple methods to model, solve and identify key features of quadratic functions.
 - h. Model and solve exponential and logarithmic functions.
 - i. Model, solve, identify characteristics and describe graphs of polynomial functions of higher degree.
 - j. Simplify and solve rational expressions and equations.
2. Student will use mathematics to define and solve problems:
 - a. Analyze problems and represent them mathematically.
3. Students will use and apply mathematical reasoning:
 - a. Evaluate a solution for reasonableness, verify its accuracy and interpret the solution in the context of the problem.
4. Students will communicate knowledge and understanding in both everyday and mathematical language.
 - a. Summarize mathematical ideas with precision, efficiency, and accuracy.
 - b. Read and interpret diagrams, graphs, and text related to mathematical situations.