Algebra 2B

The following learning targets represent the major concepts studied and assessed in this course.

Semester 1

Unit E
Rational Exponents and Radical Functions

E1 Perform operations and simplify/rationalize a radical expression.
E2 Analyze graphs of radical functions to describe their transformations, domain, and range.
E3 Find and verify the inverse of a function.
E4 Solve a radical equation and identify extraneous solutions.

Unit F
Exponential and Logarithmic Functions and Equations

F1 Analyze the graphs of exponential and logarithmic functions to describe transformations, domain, range, and asymptotes.
F2 Use exponential and logarithmic equations to solve application problems.
F3 I can solve exponential and logarithmic equations.

Semester 2

Unit G
Rational Functions and Equations

G1 Graph rational functions and describe their transformations.
G2 Simplify rational expressions by performing operations (add, subtract, multiply, divide) or by using exponent rules.
G3 Solve rational equations and identify extraneous solutions.

Unit H
Statistics

H1 Determine whether a specified model is consistent with a given data set.
H2 Use data from a sample survey to estimate a population mean or proportion and recognize the meaning of the margin of error in these estimates.
H3 Given a data set that is known to be normally distributed, predict what percentage of the data will be above or below a given value that is a multiple of standard deviations above or below the mean.