

**Algebra I**

**Number and Number Sense**

**A 1.** Determine what properties hold for matrix addition and matrix multiplication; e.g., use examples to show addition is commutative and when multiplication is not commutative.

**B 1.** Determine what properties hold for matrix addition and matrix multiplications; e.g., use examples to show addition is commutative and when multiplication is not commutative.

**D 4.** Use matrices to represent given information in a problem situation

**D 6.** Compute sums, differences and products of matrices using paper and pencil calculations for simple cases, and technology for more complicated cases.

**A 3.** Describe and compare the characteristics of the following families of functions; quadratics with complex roots, polynomials of any degree, logarithms, and rational functions; e.g., general shape, number of roots, domain and range, asymptotic behavior.

**A 6.** Represent the inverse of a function symbolically and graphically as a reflection about  $y=x$ .

**A 11.** Describe how a change in the value of a constant in an exponential, logarithmic or radical equation affects the graph of the equation.

**B 8.** Solve equations involving radical expressions and complex roots.

**A 5.** Identify families of functions with graphs that have rotation symmetry or reflection symmetry about the  $y$ -axis,  $x$ -axis or  $y=x$ .

**A 11.** Describe how a change in the value of a constant in an exponential, logarithmic or radical equation affects the graph of the equation.

**Algebra II**

**Geometry**

**Advanced Math**

**Patterns, Functions and Algebra**

**Transition to College Math**

**Patterns, Functions and Algebra**