

# Algebra 1A Supplemental General Mathematics Content Standards

## *Students will...*

### **Number Sense (NS)**

- 1.0 Know the properties of, and compute with, rational numbers expressed in a variety of forms.
- 2.0 Use exponents, powers, and roots and use exponents in working with fractions.

### **Algebra and Functions (AF)**

- 1.0 Express quantitative relationships by using algebraic terminology, expressions, equations, inequalities, and graphs.
- 2.0 Interpret and evaluate expressions involving integer powers and simple roots.
- 3.0 Graph and interpret linear and some nonlinear functions.
- 4.0 Solve simple linear equations and inequalities over the rational numbers.

### **Measurement and Geometry (MG)**

- 1.0 Choose appropriate units of measure and use ratios to convert within and between measurement systems to solve problems.
- 2.0 Compute the perimeter, area, and volume of common geometric objects and use the results to find measures of less common objects and know how perimeter, area, and volume are affected by changes of scale.
- 3.0 Know the Pythagorean theorem and deepen their understanding of plane and solid geometric shapes by constructing figures that meet given conditions and by identifying attributes of figures.

### **Mathematical Reasoning (MR)**

- 1.0 Make decisions about how to approach problems.
- 2.0 Use strategies, skills, and concepts in finding solutions.
- 3.0 Determine a solution is complete and move beyond a particular problem by generalizing to other situations.

### **Statistics, Data Analysis, and Probability (SP)**

- 1.0 Collect, organize, and represent data sets that have one or more variables and identify relationships among variables within a data set by hand and through the use of an electronic spreadsheet software program.
- 2.0 Determine theoretical and experimental probabilities and use these to make predictions about events.