

# Algebra 1A



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

## **Unit 0** **Algebra Readiness**

- A1** Solve problems involving addition and subtraction of integers.
- A2** Solve problems involving operations with rational numbers, including order of operations.
- A3** Identify whether a number is rational or irrational, and approximate on the number line.
- A4** Evaluate expressions at specific values of the variables.
- A5** Recognize and combine like terms.
- A6** Simplify an expression, including those that require the distributive property.
- A7** Work with radical and integer exponents.

## **Unit B** **Real Numbers and** **Connections to Algebra**

- B1** Identify numbers in the real number system (rational, irrational, integer, whole number, radical, terminating and repeating decimals, etc.).
- B2** Solve equations (including  $x^2$ ), recognize equivalent forms, and determine the number of solutions.
- B3** Solve inequalities, recognize equivalent forms, and graph their solutions.
- B4** Write a linear equation or inequality and use it to solve problems in context.
- B5** Solve literal equations for a specified variable.

## **Unit C** **Linear Functions and** **Equations**

- C1** Identify and compare key features of linear functions within and between all forms: graph, table, and equation.
- C2** Graph a linear equation/inequality, and determine the points that are in the solution set of a function, and evaluate functions for inputs in their domain.
- C3** Write equations of linear functions given a graph, table, word problem, or key features of that function.
- C4** Interpret the parameters of a linear function in context and analyze the effect of translations and scale changes on linear functions.

## **Unit D** **Build Linear Functions** **and Models**

- D1** Find the line of best fit and the correlation coefficient,  $r$ , of a data set, interpret each.
- D2** Write arithmetic sequences in recursive and explicit form.
- D3** Identify domain and range and use it to create piecewise functions, including in context.

## **Unit A** **Data Analysis**

- A1** Analyze and interpret dot plots, histograms & boxplots, including shape, outliers, center, spread (SOCS).
- A2** Summarize bivariate categorical data in two-way frequency tables.