LC Math I
Unit 1 – Linear Functions
Learning Goals

Function Notation: I can…

1. Understand that a relation is a function if every input in the "domain" has exactly one output in the "range"
2. Interpret a function and scenario to define appropriate variables.
3. Interpret the slope, x-intercept, and y-intercept of a linear function in context.
4. Interpret function notation in context.
5. Evaluate function outputs (*f(x)* or *y*) for specified inputs (*x*) and interpret the results in context.
6. Write and solve equations for *x* when given a specified output for the function (*f(x)* or *y*) and interpret the results in context.
7. By referring to a graph: complete function statements or evaluate function outputs

Graphing, Writing, and Solving Linear Functions and Equations: I can…

1. Graph a linear function when given the equation in:
    a. Slope-intercept form
    b. Point-slope form
    c. Standard form
2. Write the equation of a linear function in point-slope or slope-intercept form when given:
    a. The slope and y-intercept
    b. The slope and a point on the line
    c. Two points on the line
    d. A point on the line and a parallel line
    e. A point on the line and a perpendicular line
3. Isolate y to change from standard or point-slope form to slope-intercept form.
4. Algebraically find the x and y intercepts of the function.
5. Solve a linear equation algebraically
6. Describe the steps to solve a linear equation graphically

Key Resources to Study:

Linear Functions Team Quiz

Review Unit 0 learning goals and test as well for big ideas!