



# Algebra I

## 1<sup>st</sup> Grading Period (7 days)

### Power Objective:

- Understand, interpret and build functions. (P.O. #2)

### Academic Vocabulary:

- continuous graph
- dependent variable
- domain
- explicit formula
- function
- function notation
- input
- independent variable
- linear function
- nonlinear function
- output
- range
- recursive formula
- relation
- sequence

## Understand, Interpret and Build Functions

### Enduring Understandings:

- A function is a relationship that pairs one input value with exactly one output value. You can use words, tables, equations, sets of ordered pairs, and graphs to represent functions.
- You can use functions to model real-world situations that pair one input value with a unique output value.
- Arithmetic sequences have function rules that can be used to find any term of the sequence.
- The set of all solutions of an equation form its graph. A graph may include solutions that do not appear in a table. A real-world graph should show only points that make sense in the given situation.

### Essential Questions:

- How can you represent and describe functions?
- Can functions describe real-world situations?

