

# Algebra 1 - Module 2

## Functions

### A1.2.1.1 Analyze and/or use patterns or relations

- A Analyze a set of data for the existence of a pattern and represent the pattern algebraically and/or graphically. [A1.2.1.1.1](#)
  - B Determine whether a relation is a function, given a set of points or a graph. [A1.2.1.1.2](#)
  - C Identify the domain or range of a relation (may be presented as ordered pairs, a graph, or a table). [A1.2.1.1.3](#)
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### A1.2.1.2 Interpret and/or use linear functions and their equations, graphs, or tables.

- A Create, interpret, and/or use the equation, graph, or table of a linear function. [A1.2.1.2.1](#)
  - B Translate from one representation of a linear function to another (i.e., graph, table, and equation). [A1.2.1.2.2](#)
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## Coordinate Geometry

### A1.2.2.1 Describe, compute, and/or use the rate of change (slope) of a line.

- A Identify, describe, and/or use constant rates of change. [A1.2.2.1.1](#)
  - B Apply the concept of linear rate of change (slope) to solve problems. [A1.2.2.1.2](#)
  - C Write or identify a linear equation when given • the graph of the line, • two points on the line, or • the slope and a point on the line. [A1.2.2.1.3](#)
  - D Determine the slope and/or y-intercept represented by a linear equation or graph [A1.2.2.1.4](#)
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### A1.2.2.2 Analyze and/or interpret data on a scatter plot.

- A Draw, identify, find, and/or write an equation for a line of best fit for a scatter plot. [A1.2.2.2.1](#)
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## Data Analysis

### A1.2.3.1 Use measures of dispersion to describe a set of data.

- A Calculate and/or interpret the range, quartiles, and interquartile range of data. [A1.2.3.1.1](#)

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**A1.2.3.2 Use data displays in problem- solving settings and/or to make predictions.**

- A Estimate or calculate to make predictions based on a circle, line, bar graph, measure of central tendency, or other representation. [A1.2.3.2.1](#)
- B Analyze data, make predictions, and/or answer questions based on displayed data (box-and- whisker plots, stem-and-leaf plots, scatter plots, measures of central tendency, or other representations). [A1.2.3.2.2](#)
- C Make predictions using the equations or graphs of best-fit lines of scatter plots. [A1.2.3.2.3](#)

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**A1.2.3.3 Apply probability to practical situations.**

- A Find probabilities for compound events (e.g., find probability of red and blue, find probability of red or blue) and represent as a fraction, decimal, or percent. [A1.2.3.3.1](#)