

# 6th Grade Algebra Path

Below are the Mastery Learning Targets, or priorities for all students to be successful when they advance to 7th Grade Algebra. **Mastery** (M) of these skills means the student has met the grade-level standard and is independently performing on grade level. Mastery may take time to reach, as foundational skills progress throughout the school year.

## **RATIOS AND PROPORTIONAL RELATIONSHIPS**

- Calculates the price per one quantity and speed, such as miles per one hour.

## **THE NUMBER SYSTEM**

- Determines the value of a positive or negative number on a number line.
- Determines the opposite of a number.
- Adds and subtracts positive and negative numbers.
- Multiplies and divides negative and positive whole numbers.
- Finds the distance between points on a coordinate plane using absolute value.
- Adds, subtracts, multiplies and divides positive fractional numbers.
- Converts fractions to decimals.
- Adds, subtracts, multiplies and divides positive decimal numbers.

## **EXPRESSIONS AND EQUATIONS**

- Uses the order of operations to evaluate a given expression.
- Writes and solves one-step equations.
- Creates and solves two-step equations and inequalities.
- Writes and solves one-step inequalities.

## **GEOMETRY**

- Identifies and uses angle pairs to write and solve equations.
- Calculates the area of triangles, quadrilaterals and special polygons using area formulas.
- Calculates the surface area of 3D shapes.
- Calculates the volume of rectangular prisms with whole number, fractional and decimal side lengths.
- Finds the volume and surface area of right prisms and pyramids.

## **STATISTICS AND PROBABILITY**

- Calculates the mean, median, mode, range, and mean absolute deviation of a data set.
- Describes the distribution of numerical data relating to the shape and spread of the data.