

# **PLTW CS for Innovators and Makers (CSIM)**

## **Common Core State Standards for Mathematics**

### **Lesson 2**

#### **6.EE.2 - Expressions And Equations**

Write, read, and evaluate expressions in which letters stand for numbers.

#### **6.EE.2.a - Expressions And Equations**

Write expressions that record operations with numbers and with letters standing for numbers. For example, express the calculation “Subtract  $y$  from 5” as  $5 - y$ .

#### **6.EE.6 - Expressions And Equations**

Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.

#### **6.EE.8 - Expressions And Equations**

Write an inequality of the form  $x > c$  or  $x < c$  to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form  $x > c$  or  $x < c$  have infinitely many solutions; represent solutions of such inequalities on number line diagrams.

#### **6.EE.9 - Expressions And Equations**

Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation. For example, in a problem involving motion at constant speed, list and graph ordered pairs of distances and times, and write the equation  $d = 65t$  to represent the relationship between distance and time.

#### **6.SP.3 - Statistics And Probability**

Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.

#### **6.SP.5 - Statistics And Probability**

Summarize numerical data sets in relation to their context.

### **7.EE.4 - Expressions And Equations**

**Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.**

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### **Lesson 3**

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