

# Sixth Grade Math

Course Objective: The students will receive instruction in and demonstrate the ability to perform basic mathematical functions and problem solving. The sixth-grade standards require students to study the following areas: rational numbers, algebraic thinking, proportional reasoning, statistics, data analysis, probability, and plane and solid shapes.

## Course Materials:

Textbook: *Go Math Middle School, Grade 6*, Burger, E. B., Dixon, J.K., Kanold, T.D., Larson, M.R., Leinwand, S.L., & Sandoval-Martinez, M.E., (2018). ISBN-978-0-544-05672-5, Houghton Mifflin Harcourt Publishing Company

Get More Math ([www.getmoremath.com](http://www.getmoremath.com))

Google Classroom

Standards: Please refer to the [Pennsylvania Mathematics State Standards](#)

The following is a course outline with a suggested timeline.

## **Unit 1- Numbers (August-September)**

Module 1- Integers

Module 2-Factors and Multiples

Module 3-Rational Numbers

PA Standards: CC.2.1.6.E.3, CC.2.1.6.E.4

## **Unit 2-Number Operations (October-Early November)**

Module 4-Operations with Fractions

Module 5-Operations with Decimals

PA Standards: CC.2.1.6.E.4, CC2.1.6.E.2

### **Unit 3-Proportionally: Ratios and Rates (Mid November-December)**

Module 6-Representing Ratios and Rates

Module 7-Appling Ratios and Rates

Module 8-Percents

PA Standards: CC.2.1.6.E.2, CC.2.1.6.E.3, CC.2.1.6.D.1, C.C.2.1.6 E.1

### **Unit 4-Equivalent Expressions (January)**

Module 9-Generating Equivalent Numerical Expressions

Module 10-Generating Equivalent Algebraic Expressions

PA Standards: CC.2.1.6.D.1, CC.2.1.6.E.1

### **Unit 5-Equations and Inequalities (February)**

Module 11-Equations and Relationships

Module 12-Relationships in Two Variables

PA Standards: CC.2.2.6.B.1, CC.2.2.6.B.2, CC.2.2.6.B.3

### **Unit 6-Relationships in Geometry (March-April)**

Module 13-Area and Polygons

Module 14-Distance and Area in the Coordinate Plane

Module 15-Surface Area and Volume of Solids

PA Standards: CC.2.3.6.A.1, CC.2.4.6.B.1

### **Unit 7-Measurement and Data (May-June)**

Module 16-Displaying, Analyzing, and Summarizing Data

PA Standards: CC.2.4.6.B.1, CC.2.2.6.B.2, CC.2.2.6.B.3