

6th Grade Go Math Pacing Guide

***Dates are subject to change**

Green: Major Clusters

Blue: Supporting Clusters

Yellow: Additional Clusters

<https://achievethecore.org/category/774/mathematics-focus-by-grade-level>

Trimester 1 (Ends December 14th)

***Unit Vocabulary, Reading Start Up, and Are You Ready should take 1 day.**

- **Module 1 (Integers):** Lessons 1.1, 1.2, 1.3
- **Module 2 (Factors and Multiples):** Lessons 2.1, 2.2 (division ladder method)
- **Module 3 (Rational Numbers):** Lessons 3.1, 3.2, 3.3, Unit Test
- **Module 4 (Operations with Fractions):** Lessons 4.1, 4.2, 4.3, 4.4
- **Module 5 (Operations with Decimals):** Lessons 5.1, 5.2, 5.3, 5.4, 5.5, Unit Test

Trimester 2 (Ends March 17th)

***Unit Vocabulary, Reading Start Up, and Are You Ready should take 1 day.**

- **Module 12 (Coordinate Plane):** Lesson 12.1 only
 - **Plotting Points:** Students are given an ordered pair and they must plot that point on the coordinate plane.
 - Fractional ordered pairs ($3\frac{1}{2}$, -4)
 - Decimal ordered pairs (-0.5, 2.25)
 - Improper fraction ordered pairs ($\frac{7}{2}$, -5)
 - Ordered pairs on the x-axis (9, 0)
 - Ordered pairs on the y-axis (0, -4)
 - Coordinate planes may have different units (each square = $\frac{1}{2}$, each square = 2, etc.)
 - **Labeling points:** Points are plotted on the coordinate plane and students must write the ordered pair for each point.
 - Fractional and decimal ordered pairs
 - Coordinate planes may have different units (each square = $\frac{1}{2}$, each square = 2, etc.)

- **Quadrants:** Students identify/match the Quadrant the points are located in.
 - Identify if points are the same quadrant or different quadrants.
- **Module 6 (Representing Ratios and Rates):** Lessons 6.1, 6.2, 6.3
- **Module 7 (Applying Ratios and Rates):** Lessons 7.1, 7.2, 7.3, 7.4
- **Module 8 (Percents):** Lessons 8.1, 8.2, 8.3, Unit Test
- **Module 9 (Numerical Expressions):** Lesson 9.1, 9.3 (Skip 9.2)
- **Module 10 (Algebraic Expressions):** Lessons 10.1, 10.2, 10.3, Unit Test
- **Module 11 (Equations and Relationships):** Lessons 11.1, 11.2, 11.3, 11.4
- **Module 12 (Relationships in Two Variables):** Lessons 12.2, 12.3, 12.4, Unit Test

Trimester 3 **(Ends June 24th)**

***Unit Vocabulary, Reading Start Up, and Are You Ready should take 1 day.**

- **Module 14 (Coordinate Plane):** Lesson 14.1
 - **Reflections:** Students will reflect points across the x-axis, y-axis, or x and y-axis.
 - y-axis reflection: (same x-coordinate, opposite y-coordinate)
 - y-axis reflection: (opposite x-coordinate, same y-coordinate)
 - x and y-axis reflections: (opposite x-coordinate, opposite y-coordinate)
 - Reflect points and then compare or identify the new quadrant.
 - **Translations:** Move points north, south, east, west, right, left, up, and/or down to plot a new point.
 - **Distance:** Students will find the distance between two points.
 - Two points in the same quadrant
 - Two points in different quadrants
 - Given one point and students will find other points that are a certain distance away from the given point.
- **Module 13 (Area and Polygons):** Lessons 13.1, 13.2, 13.4 (skip 13.3)
- **Module 14 (Coordinate Plane):** Lesson 14.2
 - **Polygons:** Students will draw polygons on the coordinate plane given the vertices.
 - Students may be given 3 out of the 4 vertices of a rectangle or parallelogram and they must find the 4th vertex.
 - **Perimeter:** Students will find the perimeter of rectangles or squares.

- Students will be given the total perimeter and one side length and they must find the possible locations of the other corners.
- **Area:** Students will find the area of rectangles, parallelograms, and triangles on the coordinate plane.
 - Students are given the area and one or two side lengths and they must find the possible locations of the other corners.
- **Module 15 (Surface Area/Volume):** Lessons 15.2, 15.1, 15.3 (be sure to find the volume of rectangular prisms using fractional sized cubes)
- **Module 16 (Measurement and Data):** Lessons 16.4 (statistical questions), 16.1, 16.5, 16.4 (dot plots), 16.2 (IQR), 16.3, 16.2 (MAD)

MAJOR, SUPPORTING, AND ADDITIONAL CLUSTERS FOR GRADE 6

Emphases are given at the cluster level. Refer to the Common Core State Standards for Mathematics for the specific standards that fall within each cluster.

Key: ■ Major Clusters □ Supporting Clusters ○ Additional Clusters

- 6.RP.A | ■ Understand ratio concepts and use ratio reasoning to solve problems.
- 6.NS.A | ■ Apply and extend previous understandings of multiplication and division to divide fractions by fractions.
- 6.NS.B | ○ Compute fluently with multi-digit numbers and find common factors and multiples.
- 6.NS.C | ■ Apply and extend previous understandings of numbers to the system of rational numbers.
- 6.EE.A | ■ Apply and extend previous understandings of arithmetic to algebraic expressions.
- 6.EE.B | ■ Reason about and solve one-variable equations and inequalities.
- 6.EE.C | ■ Represent and analyze quantitative relationships between dependent and independent variables.
- 6.G.A | □ Solve real-world and mathematical problems involving area, surface area, and volume.
- 6.SPA | ○ Develop understanding of statistical variability.
- 6.SP.B | ○ Summarize and describe distributions.