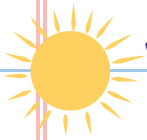


# 6th Grade Math



The Thinkwell summer learning series takes an entire year's worth of learning materials and makes it available throughout the summer so that your kids can recall what they've learned, catch up on what they haven't, and get prepared for the year ahead.



## WHAT YOU'LL GET AND HOW IT WORKS:

- Students get individual logins and work at their own pace.
- Lessons are presented in a sequential order, in small, manageable chunks.
- Students can skip through the content or repeat lessons as many times as they need.
- Practice exercises, and tests are automatically graded with step-by-step answer feedback.
- The courses are entirely web-based – no software to download, no CDs and nothing more to purchase.

## 8-WEEK PLAN FOR 6TH GRADE MATH

- Week 1 - Whole Numbers and Patterns
- Week 2 - Introduction to Algebra
- Week 3 - Decimals
- Week 4 - Number Theory and Fractions
- Week 5 - Operations with Fractions
- Week 6 - Data Displays & Proportional Relationships
- Week 7 - Geometric Relationships & Measurement
- Week 8 - Area and Volume & Integers and the Coordinate Plane

**CONTINUED ON NEXT PAGE...**

## 8-WEEK SUMMER LESSON PLAN FOR 6TH GRADE MATH



### WEEK 1 - CHAPTER 1 WHOLE NUMBERS AND PATTERNS

#### Chapter 1 Pre-Test

**FAST-TRACK IDEA!**  
TAKE THE PRE-TEST LIKE A  
DIAGNOSTIC AND ONLY  
VIEW THE TOPICS YOU NEED  
TO BASED ON THE  
QUESTIONS YOU MISSED!

#### 1.1 Whole Numbers and Exponents

- 1.1.1 Comparing and Ordering Whole Numbers
- 1.1.2 Estimating with Whole Numbers
- 1.1.3 Exponents

#### 1.2 Using Whole Numbers

- 1.2.1 Order of Operations
  - 1.2.2 Properties and Reasoning Methods
  - 1.2.3 Choose the Method of Computation
  - 1.2.4 Patterns and Sequences
- Chapter 1 Test

---

### WEEK 2 - CHAPTER 2 INTRODUCTION TO ALGEBRA

#### Chapter 2 Pre-Test

#### 2.1 Variables and Expressions

- 2.1.1 Variables and Expressions
- 2.1.2 Translate Between Words and Math
- 2.1.3 Translating Between Tables and Expressions

#### 2.2 Introduction to Equations

- 2.2.1 Equations and Their Solutions
  - 2.2.2 Addition Equations
  - 2.2.3 Subtraction Equations
  - 2.2.4 Multiplication Equations
  - 2.2.5 Division Equations
- Chapter 2 Test

---

### WEEK 3 - CHAPTER 3 DECIMALS

#### Chapter 3 Pre-Test

#### 3.1 Introduction to Decimals

- 3.1.1 Representing, Comparing, and Ordering Decimals
- 3.1.2 Rounding and Estimating Decimals
- 3.1.3 Adding and Subtracting Decimals

#### 3.2 Multiplying and Dividing Decimals

- 3.2.1 Multiplying Decimals
  - 3.2.2 Applying Exponents: Scientific Notation
  - 3.2.3 Dividing Decimals by Whole Numbers
  - 3.2.4 Dividing by Decimals
  - 3.2.5 Solving Decimal Equations
- Chapter 3 Test

---

### WEEK 4 - CHAPTER 4 NUMBER THEORY AND FRACTIONS

#### Chapter 4 Pre-Test

#### 4.1 Number Theory

- 4.1.1 Divisibility
- 4.1.2 Factors and Prime Factorization
- 4.1.3 Greatest Common Factor

#### 4.2 Representing Fractions

- 4.2.1 Decimals and Fractions
- 4.2.2 Equivalent Fractions
- 4.2.3 Mixed Numbers and Improper Fractions

#### 4.3 Introduction to Operations with Fractions

- 4.3.1 Comparing and Ordering Fractions
  - 4.3.2 Adding and Subtracting with Like Denominators
  - 4.3.3 Estimating Fraction Sums and Differences
- Chapter 4 Test



## 8-WEEK SUMMER LESSON PLAN FOR 6TH GRADE MATH

### WEEK 5: CHAPTER 5 OPERATIONS WITH FRACTIONS & MIDTERM

#### Chapter 5 Pre-Test

##### 5.1 Adding and Subtracting Fractions

- 5.1.1 Least Common Multiple
- 5.1.2 Adding and Subtracting with Unlike Denominators
- 5.1.3 Adding and Subtracting Mixed Numbers
- 5.1.4 Regrouping to Subtract Mixed Numbers

##### 5.2 Multiplying and Dividing Fractions

- 5.2.1 Multiplying Fractions by Whole Numbers
  - 5.2.2 Multiplying Fractions
  - 5.2.3 Multiplying Mixed Numbers
  - 5.2.4 Dividing Fractions and Mixed Numbers
- Chapter 5 Test

#### Practice Midterm & Midterm Exam

---

### WEEK 6 - CHAPTERS 6 DATA DISPLAYS & 7 PROPORTIONAL RELATIONSHIPS

#### Chapter 6 Pre-Test

##### 6.1 Organizing and Displaying Data

- 6.1.1 Measures of Central Tendency
  - 6.1.2 Frequency Tables, Stem-and-Leaf Plots, and Line Plots
  - 6.1.3 Bar Graphs and Histograms
- Chapter 6 Test

#### Chapter 7 Pre-Test

##### 7.1 Ratios and Proportions

- 7.1.1 Ratios and Rates
- 7.1.2 Applying Rates and Ratios
- 7.1.3 Proportions

##### 7.2 Percent

- 7.2.1 Percents
  - 7.2.2 Percents, Decimals, and Fractions
  - 7.2.3 Percent Problems
  - 7.2.4 Using Percents
- Chapter 7 Test

---

### WEEK 7 - CHAPTERS 8 GEOMETRIC RELATIONSHIPS & 9 MEASUREMENT

#### Chapter 8 Pre-Test

##### 8.1 Lines and Angles

- 8.1.1 Points, Lines, and Planes
- 8.1.2 Measuring and Classifying Angles
- 8.1.3 Angle Relationships
- 8.1.4 Classifying Lines

##### 8.2 Polygons

- 8.2.1 Triangles
  - 8.2.2 Quadrilaterals
  - 8.2.3 Polygons
- Chapter 8 Test

#### Chapter 9 Pre-Test

##### 9.1 Customary and Metric Measurement

- 9.1.1 Understanding Customary Units of Measure
- 9.1.2 Understanding Metric Units of Measure
- 9.1.3 Converting Customary Units
- 9.1.4 Converting Metric Units
- 9.1.5 Time and Temperature

##### 9.2 Measuring Geometric Figures

- 9.2.1 Finding Angle Measures in Polygons
  - 9.2.2 Perimeter
  - 9.2.3 Circles and Circumference
- Chapter 9 Test



## 8-WEEK SUMMER LESSON PLAN FOR 6TH GRADE MATH

### WEEK 8 - CHAPTERS 10 AREA AND VOLUME, 11 INTEGERS AND THE COORDINATE PLANE, & FINAL EXAM

#### Chapter 10 Pre-Test

##### 10.1 Area

- 10.1.1 Area of Rectangles and Parallelograms
- 10.1.2 Area of Triangles and Trapezoids
- 10.1.3 Area of Composite Figures
- 10.1.4 Changing Dimensions
- 10.1.5 Area of Circles

##### 10.2 Volume and Surface Area

- 10.2.1 Three-Dimensional Figures
  - 10.2.2 Volume of Prisms
  - 10.2.3 Volume of Cylinders
  - 10.2.4 Surface Area
- Chapter 10 Test

#### Chapter 11 Pre-Test

##### 11.1 Introduction to Integers

- 11.1.1 Integers in Real-World Situations
- 11.1.2 Comparing and Ordering Integers
- 11.1.3 The Coordinate Plane
- 11.1.4 Transformations in the Coordinate Plane

##### 11.2 Operations with Integers

- 11.2.1 Adding Integers
- 11.2.2 Subtracting Integers
- 11.2.3 Multiplying Integers
- 11.2.4 Dividing Integers

Chapter 11 Test

### Practice Final & Final Exam



**NEED HELP?** That's what we're here for.

Call or email Thinkwell technical support at any time.  
[Support@thinkwell.com](mailto:Support@thinkwell.com)