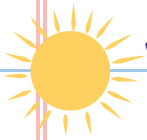# 6th Grade Math

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

6th Grade Math

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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

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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

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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

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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

6th Grade Math

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

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