



Curriculum Outline GRADE 6

A Guide for Grade 6 Math Curriculum

GRADE 6

years

NUMBER PROPERTIES

- Evaluate Exponents
- Identify Terms, Coefficients, and Monomials
- Properties of Addition
- Factors of Multiplication
- Simplify Variable Expressions
- Distributive Property
- Add and Subtract Like Terms
- Variable Inequalities
- Reciprocals
- Estimate Quotients When Dividing Mixed Numbers
- Divisibility Rules with Dividend Up to 10,000,000
- Estimate Quotients
- Inequalities with Decimal Division
- Greatest Common Factors (GCF)
- Least Common Multiples (LCM)
- GCF and LCM
- Understanding Integers
- Absolute Value and Opposite Integers
- Compare Rational Numbers
- Absolute Value of Rational Numbers
- Inequalities with Decimal Multiplication
- Identify Factors
- Write Multiplication Expressions Using Exponents
- Order of Operations

FRACTIONS

- Exponents with Fractional Bases
- Divide by Fractions with Models
- Divide Fractions Up to $\frac{1}{5}$, $\frac{1}{7}$, $\frac{1}{9}$
- Divide Fractions with Mixed Numbers Up to 20
- Divide Fractions and Mixed Numbers
- Mixed Fraction Equations with Mixed Numbers Up to 500
- Mixed Fraction Equations Up to 500
- Put Rational Numbers in Order
- Add Fractions with Unlike Denominators
- Subtract Fractions with Unlike Denominators

ALGEBRA

- Exponents: Solve for the Variable
- Exponents with Decimal Bases
- Write Linear Functions
- Evaluate Variable Expressions with Whole Numbers
- Evaluate Variable Expressions with Decimals and Fractions
- Evaluate Multi-Variable Expressions
- Solve Mixed Equations
- Solve One Step Linear Inequalities
- Two-Variable Equations
- Solve One Step Equations with Decimals and Fractions
- Linear Function
- Add and Subtract Integers
- Write Variable Expressions
- Function Tables
- Write Variable Expressions
- Write Variable Equations to Represent

MIXED EQUATIONS

- Evaluate Expressions involving Integers
- Mixed Equations with Whole Numbers
- Mixed Equations with Whole Numbers

MEASUREMENT

- Convert Between Celsius and Fahrenheit
- Working with Temperatures Above and Below Zero
- Compare and Convert Customary Units with Numbers Up to 20
- Convert, Compare and Subtract Mixed Customary Units
- Multiply and Divide Mixed Customary Units
- Customary Unit Conversions Involving Fractions and Mixed
- Compare and Convert Metric Units
- Convert Between Metric and Customary Units
- Metric Unit Conversions involving Fractions and Mixed
- Convert, Compare and Subtract Mixed Metric Units
- Multiply and Divide Mixed Metric Units

NUMBER PATTERNS

- Division Patterns with Zeroes

GEOMETRY

- Nets of 3-Dimensional Figures
- Area of Complex Figures
- Compare Area and Perimeter of Two Figures
- Area of Right Triangles
- Volume of Cubes and Rectangular Prisms

DIVISION

- Divide Numbers Ending in Zeroes
- Division with Remainder with Divisor Up to 1000

DECIMALS

- Add and Subtract Decimal Numbers Up to 3 Places
- Add and Subtract Decimal Up to 100
- Multiply Decimals with Numbers Up to 100
- Divide Decimals by Whole Numbers
- Divide Decimals by Whole Numbers
- Multiply and Divide Decimals by Powers of Ten
- Division with Decimal Quotients
- Evaluate Expressions with Decimals
- Mixed Equations with Decimals
- Mixed Equations with Decimals

RATIOS

- Ratios
- Unit Rates and Equivalent Rates
- Unit Rates
- Ratio Tables
- Equivalent Ratios
- Equivalent Ratios
- Compare Ratios
- Unit Prices with Customary Unit Conversions and Fractions
- Percents of Numbers and Money Amounts
- Percents of Numbers
- Unit Prices with Customary Unit Conversions Up to 100
- Describe Pictures as Ratios
- What Percentage Is Illustrated?
- Unit Prices with Metric Unit Conversions

ESTIMATION

- Estimate Sums and Differences of Decimals Up to 100
- Estimate Products of Decimal Numbers

MONEY

- Consumer Math: Unit Prices
- Which is the Better Coupon?
- Unit Prices: Which is the Better Buy?
- Sale Prices
- Sale Prices: Find the Original Price
- Calculate Tip, Markup and Commission

STATS

- Identify Representative, Random, and Biased Samples
- Calculate Mean
- Calculate Mode
- Calculate Range
- Calculate Median
- Calculate Mean, Median, Mode and Range
- Mean, Median, Mode, and Range: Find the Missing Number
- Interpret Box-And-Whisker Plots
- Interpret Charts to Find Mean, Median, Mode, and Range
- Identify Representative Samples
- Identify Biased Samples
- Interpret Charts to Find Mean
- Interpret Charts to Find Median
- Interpret Charts to Find Mode
- Interpret Charts to Find Range

GRAPHING

- Interpret Bar Graphs
- Create Bar Graphs
- Interpret Double Bar Graphs
- Create Double Bar Graphs Using Tables
- Circle Graphs with Fractions
- Interpret Line Graphs
- Create Line Graphs
- Interpret Double Line Graphs
- Create Double Line Graphs Using Tables
- Interpret Pictographs
- Interpret Line Plots with Up to 5 Data Points
- Relative Coordinates
- Distance Between Two Points
- Graph Points on a Coordinate Plane
- Coordinate Graphs with Decimals and Negative Numbers
- Coordinate Graphs Review
- Translations: Graph the Image
- Reflections: Graph the Image
- Coordinate Graphs as Maps
- Stem-And-Leaf Plots
- Create Line Plots
- Create Line Plots II
- Create Pictographs
- Create Histograms
- Create Frequency Tables
- Maps with Decimal Distances
- Choose the Best Graph Type
- Constant Rate of Change
- Interpret Circle Graphs