



Curriculum Outline GRADE 4

A Guide for Grade 4 Math Curriculum

GRADE 4

years

GEOMETRY

- Acute, Right, Obtuse, and Straight Angles
- Lines, Line Segments and Rays
- Parallel, Perpendicular, Intersecting
- Identify Planar and Solid Shapes
- Types of Triangles
- Symmetry
- Relationship Between Area and Perimeter
- Use Area and Perimeter to Determine the Cost
- Angles of 90, 180, 270 and 360 Degrees
- Estimate Angle Measurements
- Adjacent Angles
- Identify Angles
- Compare Area and Perimeter of Two Figures
- Which 2 Dimensional Shape Is Described?
- Classify Quadrilateral Shapes
- Perimeter with Unit Squares
- Area of Squares and Rectangles

TIME

- Convert Time Units
- Fractions of Time Units
- Add and Subtract Mixed Time Units
- Find the Change in Time
- Find Start and End Times
- Time Patterns

MEASUREMENT

- Compare and Convert Customary Units
- Compare and Convert Metric Units
- Convert Mixed Customary Units
- Add and Subtract Customary Units
- Compare Customary Units by Multiplying
- Convert Between Metric and Customary Units
- Recipes
- Compare Metric Units by Multiplying
- Convert Mixed Metric Units
- Add and Subtract Metric Units

MONEY

- Making Change Up to \$20
- Compare Money Amounts
- Price Lists with Multiplication
- Price Lists with Addition and Subtraction

GRAPHING

- Interpret Line Plots with Numbers Up to 40
- Create Line Plots

NUMBER PROPERTIES

- Convert Numbers with Tens, Hundreds, Thousands
- Compare Numbers Up to 10000000
- Inequalities with Multiplication
- Inequalities with Division
- Inequalities with Mixed Equations
- Factors of Multiplication
- Properties of Division
- Choose the Equivalent Fraction Up to Twentieths
- Inequalities with similar Fractions Up to 12
- Choose Properties of Multiplication
- Prime and Composite Numbers
- Choose the Multiples of a Given Number
- Identify Factors
- Choose Numbers with a Particular Product
- Divisibility Rules with Numbers Up to 10,000
- Input/Output Tables with Mixed Equations

ADDITION

- Convert Numbers with Tens, Hundreds, Thousands
- Add Two Numbers Up to 5000000
- Numbers Up to 5000000
- Choose Numbers with a Particular Sum

COUNTING

- Compare Numbers Up to 10000000
- Counting and Number Patterns: Writing Numbers in Words

NUMBER PATTERNS

- Addition Patterns Over Increasing Place Values
- Multiplication Patterns Over Increasing Place Values
- Patterns of Equivalent Fractions
- Geometric Growth Patterns
- Increasing Growth Patterns
- Numeric Patterns
- Patterns involving Addition and Multiplication
- Time Patterns
- Mixed Patterns

DIVISION

- Inequalities with Division
- Properties of Division
- Division with Remainder with Numbers Up to 500
- Division Tables
- Division with Remainder with Numbers Up to 1000
- Division with Divisors Up to 100
- Division with Dividend Up to 1000
- Division with Divisors Up to 200
- Interpret Remainders
- Divisibility Rules with Numbers Up to 10,000

MULTIPLICATION

- Inequalities with Multiplication
- Multiply Two Numbers Up to 500
- Multiplication Patterns Over Increasing Place Values
- Factors of Multiplication
- Multiply Two Numbers Up to 100
- Multiply Two Numbers Up to 1000
- Multiply Fractions by Whole Numbers
- Multiply Fractions by Whole Numbers
- Find Missing Factors
- Choose Properties of Multiplication
- Estimate Products
- Multiplication with Operands Up to 1001
- Multiplication with Operands Up to 100 II
- Multiplication with Operands Up to 100 III
- Multiply a 2-Digit Number by a 2-Digit Number

MIXED EQUATIONS

- Inequalities with Mixed Equations
- Mixed Equation with Numbers Up to 10000
- Estimate Mixed Equations
- Multi-Step
- Extra or Missing Information
- Solve Using Guess-And-Check
- Choose Numbers to Make Mixed Equations
- Input/Output Tables with Mixed Equations

ESTIMATION

- Estimate Sums with Numbers Up to 100,000
- Estimate Sums
- Estimate Differences
- Estimate Differences
- Estimate Products Up to 100,000
- Estimate Quotients Up to 10,000
- Estimate Mixed Equations
- Rounding with Numbers Up to 100,000

FRACTIONS

- Choose the Equivalent Fraction Up to Twentieths
- Patterns of Equivalent Fractions
- Reduce to Lowest Terms
- Put Fractions in Order Up to Twentieths
- Inequalities with similar Fractions Up to 12
- Add Two Fractions
- Subtract Two Fractions
- Add Three Fractions
- Subtract Three Fractions
- Add Two Mixed Fractions
- Subtract Two Mixed Fractions
- Add Fractions
- Subtract Fractions
- Multiply Fractions by Whole Numbers
- Multiply Fractions by Whole Numbers
- Convert Fractions and Mixed Numbers to Decimals
- Convert Decimals to Fractions and Mixed Numbers
- Equal Fractions with Denominators of 10, 100, 1000
- Decompose Fractions with Denominators of 10, 100, 1000
- Add Fractions with Denominators of 10, 100, 1000

SUBTRACTION

- Subtraction with Numbers Up to 5000000
- Fill in the Missing Digits
- Choose Numbers with a Particular Difference
- Subtraction with Numbers Up to 5000000

DECIMALS

- Convert Fractions and Mixed Numbers to Decimals
- Convert Decimals to Fractions and Mixed Numbers
- Compare Decimal Numbers Up to 2 Places
- Put Decimal Numbers in order with Numbers Up to 5

COMPARISON

- Compare Decimal Numbers Up to 2 Places
- Put Decimal Numbers in order with Numbers Up to 5

ALGEBRA

- Write Variable Expressions
- Write Variable Equations to Represent
- Find Two Numbers Based on the Sum and the Difference
- Find Two Numbers Based on the Operation
- Function Tables