

Math Curriculum

Grade 4

Important Concepts

- Represent numbers in thousands and millions
- Understand place value patterns
- Compare and order numbers to 6 digits
- Rounding numbers up to hundred thousand place
- Understand the steps to problem solving
- Understand properties and strategies for mental math
- Estimate sums and differences
- Add/ subtract whole numbers and money
- Translating words to expressions
- Solving addition and subtraction equations
- Understanding/ articulating parts of a set
- Using fractions to represent parts of a number line
- Estimating fractions using benchmarks
- Understanding/ creating equivalent fractions
- Reducing fractions to simplest form
- Comparing and ordering fractions
- Converting between mixed numbers and improper fractions
- Using circle graphs to represent fractions
- Add/ subtract fractions with like denominators
- Using analog and digital clocks to tell time
- Calculating elapsed time
- Understanding units of measure for length, capacity, weight (customary and metric)
- Converting and comparing units of measure
- Calculating perimeter, area, and volume
- Read and interpret graphs (pictographs, bar graphs, line graphs)

Vocabulary

Place value
Estimate
Rounding
Equations
Set
Numerator
Denominator
Simplest form
Improper fraction
Mixed number
Reduce
Elapsed time
Inch, foot, yard, mile
Cup, ounce, tablespoon, teaspoon, pint, quart, gallon
Ounce, pound, ton
Perimeter
Area
Volume
Probability
Likelihood
Certainty
Median, mode, range
Line
Line segments
Rays
Angles
Triangles
Quadrilaterals
Circles
Congruent
Similar
Symmetrical
Factor
Product
Dividend
Divisor
Quotient
Remainder
Average

Math Curriculum

Grade 4 (con't)

Important Concepts

Vocabulary

- Graphing ordered pairs
- Calculating median, mode, and range
- Interpreting data from surveys
- Calculating probability (tree diagrams)
- Using probability to make predictions
- Working backwards to solve problems
- Relating solids and plane figures
- Understanding the characteristics of polygons
- Identifying lines, line segments, rays
- Classifying congruent and similar figures
- Identifying symmetry
- Solving multi-step problems
- Write and evaluate expressions
- Solve multiplication and division equations
- Multiplying multiples of 10
- Estimating products
- Multiplying two and three digit numbers
- Multiplying money
- Creating a list to solve problems
- Use patterns to divide
- Estimate quotients
- Find quotients using long division
- Interpreting remainders
- Divisibility rules
- Calculating averages