

Math Curriculum

Grade 5

Important Concepts

- Apply number theory concepts
- Use strategies to represent & solve number sentences
- Compare the value and place value of a digit
- Use place value to compare/ order numbers
- Writing numbers in exponential form
- Use estimation to determine the reasonableness of an answer
- Solve problems using decimals, fractions, and/ or whole numbers
- Use expanded notation to represent whole numbers
- Match the standard and word form of decimals
- Compare and order decimals
- Compare proper fractions
- Use regions or sets to model fractions and mixed numbers
- Solve problems with operations with whole numbers and decimals
- Add/ subtract fractions with like/ unlike denominators
- Round whole numbers and decimals
- Use estimation to solve problems
- Predict the likelihood of outcomes
- Determine the probability of an outcome
- Classify geometric shapes according to their attributes
- Determine how a change in perimeter effects the change in area of quadrilaterals and triangles
- Identify patterns in geometric shapes
- Locate integers on a number line
- Select the appropriate unit for measuring weight, capacity, length, perimeter, & area
- Estimate the area of a polygon and irregular figure
- Classify three dimensional figures
- Describe properties of quadrilaterals
- Label points, lines, line segments, rays

Vocabulary

Prime
Factors
Multiples
Composite
Equation
Expression
Exponential form
Expanded notation
Standard form
Common denominator
Probability
Symmetry
Congruent
Similar
Square units
Faces
Vertices
Edges
Integers
Parallelogram
Rectangle
Rhombus
Square
Trapezoid
Mass
Capacity
Metric
Milli-, Kilo-, Deci-, Deca-, Centi-
Mean
Sample
Population
Central tendency
Order of operations
Properties of equality
Coordinate plane
Ordered pairs

Math Curriculum

Grade 5 (con't)

Important Concepts

- Identify the tools and units used to measure attributes of objects
- Compare different systems of measurement
- Convert units within the same measurement system
- Add/ subtract linear measurements
- Use a ruler to measure to the nearest $\frac{1}{8}$ inch
- Solve problems involving weight, time, temperature, length, & capacity
- Organize & interpret data using graphs, tallies, and tables
- Describe data using mean, median, mode, &/ or range
- Solve problems with fractions, decimals, & whole numbers
- Determine the appropriate measure of central tendency
- Determine the effect of a sample on the conclusions from the sample
- Use data to predict trends
- Determine a rule for a given pattern
- Solve for a missing value in an equation
- Match a situation with an equation or expression
- Use properties of equality to solve equations
- Use order of operations to simplify expressions
- Use the coordinate plane to explain the relationship between positive & negative integers

Vocabulary