

5th Grade
Math Curriculum

Operations and Algebraic Thinking

- patterns of addition, subtraction, multiplication and division
- order of operations for mathematic equations
- recognition of prime and composite numbers
- fraction sense: GCF, LCM, LCD, simplest terms, improper and mixed numbers, equivalent fractions: used in fraction computation
- properties of multiplication
- interpreting graphs and charts
- mathematical expressions and equations with and without a variable
- use of divisibility for division and fraction work
- problem solving using different strategies: guess and try
 - multiple steps
 - make a table/find a pattern
 - organized list
 - working backwards
 - using a diagram/model

Number Operations in Base Ten

- place value to the billions and thousandths
- rounding to the billions and hundredths
- expanded form
- comparing and ordering numbers: whole numbers, decimals and fractions
- addition and subtraction: whole numbers, decimals and fractions
- multiplication: whole numbers, decimals and fractions
- division: whole numbers, decimals and fractions
- working with money amounts both in computation and word problems

Number and Operations – Fractions

- addition and subtraction: fractions, mixed number: like and unlike denominators
- renaming of sums/differences
- estimating of fractions in addition, subtraction, multiplication, division
- multiplication and division: fractions, mixed numbers
- finding reciprocals for use in division
- expressing mixed numbers as improper fractions

Measurement and Data

- calculating volume using cubes, units of measure and by use of a formula
- calculate perimeter using formula
- calculate area of a plane figure or triangle by counting squares on a grid and by use of a formula
- calculating time spans

Geometry

- identify congruent and similar figures
- identify part of a circle
- calculating the circumference of a circle using the radius and/or diameter
- identify angles, polygons, triangles
- explore translations, reflections and rotations
- finding and plotting coordinates on a graph (x,y)