

**Kid and Parent Friendly
Content Standards
for
English Language Arts and Mathematics**

Fifth Grade Mathematics Standards

NUMBER SENSE

1.0 Relative Magnitude of Numbers

- _____ Round very large and very small numbers.
- _____ Find and compute percent.
- _____ Compute positive integer powers.
- _____ Determine prime factors of numbers to 50.
- _____ Order decimals, fractions, positive and negative numbers.

2.0 Computation

- _____ Compute decimals, negative integers, etc.
- _____ Divide by multi-digit divisor/decimals.
- _____ Add and subtract fractions and mixed numbers.
- _____ Understand how to multiply and divide fractions.
- _____ Multiply and divide fractions.

ALGEBRA AND FUNCTIONS

1.0 Simple Expressions

- _____ Use graphs/equations to answer questions.
- _____ Write/evaluate simple algebraic expressions.
- _____ Use the distributive property.
- _____ Identify and graph ordered pairs.
- _____ Use linear functions with integer values

Measurement and Geometry

1.0 Area and Volume

_____ Compare formulas of geometric shapes.

_____ Compute surface area of cube, etc.

_____ Compute volume of rectangular solid.

_____ Measure 2- and 3-dimensional objects

2.0 Geometry

_____ Draw angles, lines, shapes with tools.

_____ Know the sum of the angles of shapes.

_____ Draw 3-dimensional objects.

STATISTICS, DATA ANALYSIS, AND PROBABILITY

1.0 Data

_____ Compute mean, medium, and mode.

_____ Organize/display single-variable data.

_____ Compare data sets with fractions/percent.

_____ Identify and interpret data from a graph.

_____ Write ordered pairs correctly.

MATHEMATICAL REASONING

1.0 Make Decisions about a Problem

_____ Identify relationships in problems.

_____ Know when/how to break problems into parts.

2.0 Solve Problems/Justify Reasoning

_____ Use estimation to verify results.

_____ Apply strategies to complex problems.

_____ Use methods to explain math reasoning.

_____ Express solutions clearly.

_____ Know advantage of exact/approximate results.

_____ Make precise calculations and verify.

3.0 Make Connections

_____ Evaluate reasonableness of a result.

_____ Note methods of deriving a solution.

_____ Develop generalization of the result.