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

Fourth Grade Mathematics Standards

NUMBER	SENSE
NOMBELL	OLIVOL

1.0 Place Value
Read and write numbers to millions.
Order whole numbers and two place decimals.
Round numbers to nearest 100,000.
Decide when a rounded solution is good.
Divide a whole number by a whole number.
Write 10ths/100ths in decimals and fractions.
Write a fraction from a drawing of its parts.
Use concepts of negative numbers.
Show fractions on a number line.
2.0 Computation—Decimals
Add and subtract whole numbers and two-place decimals.
Round two-place decimals.
3.0 Computation—Whole Numbers
Add and subtract multi-digit numbers.
Multiply by two digits/divide by one digit.
Multiply multi-digits by two digit numbers.
Divide multi-digits by one digit number.
4.0 Factoring
Factor whole numbers.

Certain numbers do not have factors.
ALGEBRA AND FUNCTIONS
1.0 Number Sentences/Expressions
Use letters and symbols to represent numbers.
Understand math expressions that use parentheses.
Use parentheses to show order of operations.
Use and interpret formulas.
Know equations are prescriptions to find a number.
2.0 Manipulate Equations
Know equals added to equals are equal.
Know equals multiplied by equals are equal.
MEASUREMENT AND GEOMETRY
1.0 Area and Perimeter
Measure area of rectangular shapes.
Compare rectangles with same area.
Know that rectangles with same perimeter can have different areas.
Know and use formulas for perimeter and area.
2.0 Coordinate Grids
Draw points on a graph (y=3x)
Understand horizontal line on graph.
Understand vertical line on graph.
3.0 Geometry
Identify parallel and perpendicular lines.
Identify radius and diameter of a circle.

Identify congruent figures.
Identify bilateral and rotational symmetry
Know right, acute, and obtuse angles.
Describe and make models of geometric solids.
Know definitions and attributes of triangles.
Know definitions of quadrilaterals.
STATISTICS, DATA ANALYSIS, AND PROBABILITY
1.0 Data Analysis
Collect and represent data.
Identify mode and medium of data sets.
Interpret 1 & 2 variable data graph.
2.0 Making Predictions
State outcomes of probability situations.
Express outcomes of probability experiments.
MATHEMATICAL REASONING
1.0 Make Decisions about a Problem
Identify relationships in problems.
Know when and how to break apart problems.
2.0 Solve Problems/Justify Reasoning
Use estimations to verify results.
Apply strategies to complex problems.
Use methods to explain math reasoning.
Express solutions clearly.
Know advantage of exact or approximate results.

	Make precise calculations and verify result.
3.0	Make Connections
	Evaluate reasonableness of a result.
	Note methods of deriving solution.
	Develop generalization of the result.

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