3RD GRADE MATH STANDARDS

List of Performance Expectations	Core Content #1: **Addition, Subtraction, and Place Value**	Core Content #2: **Concepts of Multiplication and Division**	Core Content #3: **Fraction Concepts**	Core Content #4: **Geometry**	Core Content #5: **Additional Key Content**	Core Processes: **Reasoning, Problem Solving, and Communication**
A	Read, write, compare, order, and represent numbers to 10,000 using numbers, words, and symbols. N	Represent multiplication as repeated addition, arrays, counting by multiples, and equal jumps on the number line, and connect each representation to the related equation. O	Represent fractions that have denominators of 2, 3, 4, 5, 6, 8, 9, 10, and 12 as parts of a whole, parts of a set, and points on the number line. N	Identify and sketch parallel, intersecting, and perpendicular lines and line segments. GM	Determine whether two expressions are equal and use "=" to denote equality. A	**Determine** the question(s) to be answered given a problem situation.
B	Round whole numbers through 10,000 to the nearest ten, hundred, and thousand. N	Represent division as equal sharing, repeated subtraction, equal jumps on the number line, and formation of equal groups of objects, and connect each representation to the related equation. O	Compare and order fractions that have denominators of 2, 3, 4, 5, 6, 8, 9, 10, and 12. N	Identify and sketch right angles. GM	Measure temperature in degrees Fahrenheit and degrees Celsius using a thermometer. GM	**Identify** information that is given in a problem and decide whether it is necessary or unnecessary to the solution of the problem.
C	Fluently and accurately add and subtract whole numbers using the standard regrouping algorithms. 0	Determine products, quotients, and missing factors using the inverse relationship between multiplication and division. AO	Represent and identify equivalent fractions with denominators of 2, 3, 4, 5, 6, 8, 9, 10, and 12. N	Identify and describe special types of quadrilaterals. GM	Estimate, measure, and compare weight and mass using appropriate-sized U.S. customary and metric units. GM	**Identify** missing information that is needed to solve a problem.
D	Estimate sums and differences to approximate solutions to problems and determine reasonableness of answers. O	Apply and explain strategies to compute multiplication facts to 10 X 10 and the related division facts. O	Solve single- and multi-step word problems involving comparison of fractions and verify the solutions. AN	Measure and calculate perimeters of quadrilaterals. GM	Estimate, measure, and compare capacity using appropriate-sized U.S. customary and metric units. GM	**Determine** whether a problem to be solved is similar to previously solved problems, and identify possible strategies for solving the problem.
E	Solve single- and multi-step word problems involving addition and subtraction of whole numbers and verify the solutions. AO	Quickly recall those multiplication facts for which one factor is 1, 2, 5, or 10 and the related division facts. O		Solve single- and multi-step word problems involving perimeters of quadrilaterals and verify the solutions. GM	Construct and analyze pictographs, frequency tables, line plots, and bar graphs. PS	**Select** and use one or more appropriate strategies to solve a problem.
F		Solve and create word problems that match multiplication or division equations. AO				**Represent** a problem situation using words, numbers, pictures, physical objects, or symbols.
G		Multiply any number from 11 through 19 by a single-digit number using the distributive property and place value concepts. O				**Explain** why a specific problem-solving strategy or procedure was used to determine a solution.
H		Solve single- and multi-step word problems involving multiplication and division and verify the solutions. AO				**Analyze and evaluate** whether a solution is reasonable, is mathematically correct, and answers the question.

I						**Summarize** mathematical information, draw conclusions, and explain reasoning.
J						**Make and test** conjectures based on data (or information) collected from explorations and experiments.