5TH GRADE MATH STANDARDS

List of Performance Expectations	Core Content #1: **Multi-Digit Division**	Core Content #2: **Addition & Subtraction of Fractions and Decimals**	Core Content #3: **Triangles and Quadrilaterals**	Core Content #4: **Representations of Algebraic Relationships**	Core Content #5: **Additional Key Content**	Core Processes: **Reasoning, Problem Solving, and Communication**
A	Represent multi-digit division using place value models and connect the representation to the related equation. O	Represent addition and subtraction of fractions and mixed numbers using visual and numerical models, and connect the representation to the related equation. O	Classify quadrilaterals. GM	Describe and create a rule for numerical and geometric patterns and extend the patterns. A	Classify numbers as prime or composite. N	**Determine** the question(s) to be answered given a problem situation.
B	Determine quotients for multiples of 10 and 100 by applying knowledge of place value and properties of operations. O	Represent addition and subtraction of decimals using place value models and connect the representation to the related equation. O	Identify, sketch, and measure acute, right, and obtuse angles. GM	Write a rule to describe the relationship between two sets of data that are linearly related. A	Determine and interpret the mean of a small data set of whole numbers. PS	**Identify** information that is given in a problem and decide whether it is essential or extraneous to the solution of the problem.
C	Fluently and accurately divide up to a four digit number by one- or two-digit divisors using the standard long-division algorithm. O	Given two fractions with unlike denominators, rewrite the fractions with a common denominator. N	Identify, describe, and classify triangles by angle measure and number of congruent sides. GM	Write algebraic expressions that represent simple situations and evaluate the expressions, using substitution when variables are involved. A	Construct and interpret line graphs. PS	Determine whether additional information is needed to solve the problem.
D	Estimate quotients to approximate solutions and determine reasonableness of answers in problems involving up to two-digit divisors. O	Determine the greatest common factor and the least common multiple of two or more whole numbers. N	Determine the formula for the area of a parallelogram by relating it to the area of a rectangle. GM	Graph ordered pairs in the coordinate plane for two sets of data related by a linear rule and draw the line they determine. A		**Determine** whether a problem to be solved is similar to previously solved problems, and identify possible strategies for solving the problem.
E	Mentally divide two-digit numbers by one digit divisors and explain the strategies used. O	Fluently and accurately add and subtract fractions, including mixed numbers. O	Determine the formula for the area of a triangle by relating it to the area of a parallelogram. GM			**Select** and use one or more appropriate strategies to solve a problem and explain why that strategy was chosen.
F	Solve single- and multi-step word problems involving multi-digit division and verify the solutions. AO	Fluently and accurately add and subtract decimals. O	Determine the perimeters and areas of triangles and parallelograms. GM			**Represent** a problem situation using words, numbers, pictures, manipulatives, or symbols.
G		Estimate sums and differences of fractions, mixed numbers, and decimals to approximate solutions to problems and determine reasonableness of answers. O	Draw quadrilaterals and triangles from given information about sides and angles. GM			**Explain** why a specific problem-solving strategy or procedure was used to determine a solution.
H		Solve single- / multi-step word problems involving addition and subtraction of whole numbers, fractions (including mixed numbers), and decimals, and verify	Determine the number and location of lines of symmetry in triangles and quadrilaterals.			**Analyze and evaluate** whether a solution is reasonable, is mathematically correct, and answers the question.

		the solutions. AO	GM			
I			Solve single- and multi-step word problems about the perimeters and areas of quadrilaterals and triangles and verify the solutions. GMA			**Summarize** mathematical information, draw conclusions, and explain reasoning.
J						**Make and test conjectures** based on data (or information) collected from explorations and experiments.