Grade 4 Math Pacing Guide

1st Quarter

Strand: Number and Number Sense
Focus: Place Value, Fractions, and Decimals

4.1 The student will
- a) identify orally and in writing the place value for each digit in a whole number expressed through millions;
- b) compare two whole numbers expressed through millions, using symbols (>, <, or =); and
- c) round whole numbers expressed through millions to the nearest thousand, ten thousand, and hundred thousand.

Strand: Computation and Estimation
Focus: Factors and Multiples, and Fractions and Decimal Operations

4.4*** The student will
- a) estimate sums, differences, products, and quotients of whole numbers;
- b) add, subtract, and multiply whole numbers;
- c) divide whole numbers, finding quotients with and without remainders; and
- d) solve single-step and multistep addition, subtraction, and multiplication problems with whole numbers.

Strand: Patterns, Functions, and Algebra
Focus: Geometric Patterns, Equality, and Properties

4.16 The student will
- a) recognize and demonstrate the meaning of equality in an equation; and
- b) investigate and describe the associative property for addition and multiplication.

Strand: Measurement
Focus: Equivalence within US Customary and Metric Systems

****4.9 The student will determine elapsed time in hours and minutes within a 12-hour period. (revisit through the last three quarters)

4.6 The student will
- a) estimate and measure weight/mass and describe the results in U.S. Customary and metric units as appropriate; and
- b) identify equivalent measurements between units within the U.S. Customary system (ounces, pounds, and tons) and between units within the metric system (grams and kilograms).

2nd Quarter

Strand: Computation and Estimation
Focus: Factors and Multiples, and Fractions and Decimal Operations

4.4 ***The student will
- a) estimate quotients of whole numbers
- c)dived whole numbers finding quotients with and without remainders
- d)single and multi step division problems with whole numbers

Strand: Number and Number Sense
Focus: Place Value, Fractions, and Decimals

4.2 The student will
- a) compare and order fractions and mixed numbers;
- b) represent equivalent fractions; and
- c) identify the division statement that represents a fraction.

Strand: Probability and Statistics
Focus: Outcomes and Data

4.13 The student will
- a) predict the likelihood of an outcome of a simple event
- b) represent probability as a number between 0 and 1, inclusive

Strand: Measurement
Focus: Equivalence within US Customary and Metric Systems

4.7 The student will
- a) estimate and measure length, and describe the result in both metric and U.S. Customary units; and
- b) identify equivalent measurements between units within the U.S. Customary system (inches and feet; feet and yards; inches and yards; yards and miles) and between units within the metric system (millimeters and centimeters; centimeters and meters; and millimeters and meters).

Strand: Computation and Estimation
Focus: Factors and Multiples, and Fractions and Decimal Operations

4.5 *** The student will
- a) determine common multiples and factors, including least common multiple and greatest common factor;

3rd Quarter

Strand: Number and Number Sense
Focus: Place Value, Fractions, and DecimalS

4.3 The student will
- a) read, write, represent, and identify decimals expressed through thousandths;
- b) round decimals to the nearest whole number, tenth, and hundredth;
- c) compare and order decimals

Strand: Computation and Estimation
Focus: Factors and Multiples, and Fractions and Decimal Operations

4.5*** The student will
- c) add and subtract with decimals;
- d) solve single-step and multistep practical problems involving addition and subtraction with fractions and with decimals

Strand: Number and Number Sense
Focus: Place Value, Fractions, and Decimals

4.3 The student will
- d) given a model, write the decimal and fraction equivalents.

Strand: Measurement
Focus: Equivalence within US Customary and Metric Systems

4.8 The student will
- a) estimate and measure liquid volume and describe the results in U.S. Customary units; and
- b) identify equivalent measurements between units within the U.S. Customary system (cups, pints, quarts, and gallons).

4th Quarter

Strand: Geometry
Focus: Representations and Polygons

4.10 The student will
- a) identify and describe representations of points, lines, line segments, rays, and angles, including endpoints and vertices; and
- b) identify representations of lines that illustrate intersection, parallelism, and perpendicularity.

4.11 The student will
- a) investigate congruence of plane figures after geometric transformations, such as reflection, translation, and rotation, using mirrors, paper folding, and tracing; and
- b) recognize the images of figures resulting from geometric transformations, such as translation, reflection, and rotation.

4.12 The student will
- a) define polygon; and
- b) identify polygons with 10 or fewer sides.

Strand: Probability and Statistics
Focus: Outcomes and Data

4.14 The student will collect, organize, display, and interpret data from a variety of graphs.

Strand: Patterns, Functions, and

	b) add and subtract fractions having like and unlike denominators that are limited to 2, 3, 4, 5, 6, 8, 10, and 12, and simplify the resulting fractions, using common multiples and factors;		**Algebra** **Focus: Geometric Patterns, Equality, and Properties** 4.15 The student will recognize, create, and extend numerical and geometric patterns.