



North Carolina Essential Standards Mathematics— Grade 2

Note on Numbering: **N**–Number and Operations, **A**–Algebra, **G**–Geometry, **M**–Measurement, **S**–Statistics and Probability and **D**–Discrete Mathematics

Number and Operations

	Essential Standard	Clarifying Objectives	
2.N.1	Represent whole numbers from 0 through 1,000 in terms of the base ten numeration system.	2.N.1.1	Illustrate whole numbers to 1,000 in groups of ones, tens, hundreds and thousands by composing and decomposing flexible groups.
		2.N.1.2	Interpret the value of a digit (1-9 and 0) in a multi-digit numeral by its position within the number with models, words and numerals.
		2.N.1.3	Use benchmark numbers (25, 50, 75, 100, 200, etc.) to determine a reasonable estimate.
		2.N.1.4	Understand counting by 10's and 100's on and off the decade.
		2.N.1.5	Compare whole numbers less than 1,000 with symbols (<, >) and words.
2.N.2	Use multiple strategies fluently to solve story problems involving addition and subtraction.	2.N.2.1	Remember addition and related subtraction facts (sums to 20) to develop fluency.
		2.N.2.2	Use properties of addition to solve multi-step, two-digit story problems.
		2.N.2.3	Use benchmark numbers to facilitate mental math strategies, estimation and judging reasonableness of answers.
		2.N.2.4	Apply strategies to compose and decompose when adding and subtracting whole numbers less than 300.
2.N.3	Understand the concept of division as fair shares (equipartitioning).	2.N.3.1	Illustrate division by making equal sized groups using models.
		2.N.3.2	Interpret verbally the share as "1/ <i>n</i> th of the whole" and the whole as " <i>n</i> times as much" as the share.
		2.N.3.3	Understand the relationship between the size of a fair share (of a set or of a single continuous whole) and the number of people sharing (compensatory principle).

Algebra

	Essential Standard	Clarifying Objectives	
2.A.1	Classify numbers into the categories of odd and even.	2.A.1.1	Recognize patterns created with odd and even numbers.
2.A.2	Represent situations found in story problems as number sentences with unknowns.	2.A.2.1	Understand how a verbal situation is translated into an equation.
		2.A.2.2	Understand how a variable represents an unknown.
2.A.3	Use patterns to solve problems.	2.A.3.1	Understand that patterns grow or repeat.
		2.A.3.2	Apply patterns to properties of numbers and operations.

Geometry

	Essential Standard	Clarifying Objectives	
2.G.1	Classify the faces of polyhedra as polygons.	2.G.1.1	Classify angles as greater than, equal to or less than a right angle.
		2.G.1.2	Recognize faces of polyhedra (cube, triangular prism, rectangular prism, triangular pyramid, and rectangular/square pyramid) as polygons (triangles and rectangles, including squares).
2.G.2	Compare polygons to determine whether they are or are not congruent.	2.G.2.1	Classify polygons in three ways; same size, same shape (congruent); same size, different shape; and different size, same shape.
		2.G.2.2	Understand congruence in polygons with different orientations (proximity, position, directions and turns).

Measurement

	Essential Standard	Clarifying Objectives	
2.M.1	Understand the use of non-standard units in measurement of length, weight*, capacity and area. <small>*More properly mass, but most commonly understood as weight at this grade band.</small>	2.M.1.1	Compare objects with respect to their lengths, weights or capacities using non-standard units.
		2.M.1.2	Understand that larger units can be subdivided into equivalent units (partition).
		2.M.1.3	Understand that the same unit can be repeated to determine the measure (iteration).
		2.M.1.4	Understand the relationship between the size of a unit and the number of units needed (compensatory principal).
		2.M.1.5	Understand the measuring of two-dimensional space (area) using non-standard units.
2.M.2	Understand how to tell time.	2.M.2.1	Use analog and digital clocks to tell time to the hour and half hour.
		2.M.2.2	Understand a.m. and p.m.
2.M.3	Use strategies to count money collections.	2.M.3.1	Remember the names and values of coins (penny, nickel, dime and quarter).
		2.M.3.2	Use multiple strategies to count collections of coins up to one dollar (\$1).
		2.M.3.3	Use the symbols \$ and ¢ properly.

Statistics and Probability

	Essential Standard	Clarifying Objectives	
2.S.1	Understand data from statistical investigations in order to develop and evaluate inferences and predictions.	2.S.1.1	Analyze parts of data and the set of data as a whole to determine what the data show in Venn diagrams (2 circle) and line plots.
		2.S.1.2	Use counting concepts of grouping and comparing to illustrate the differences between values and frequencies in line plots.
		2.S.1.3	Identify patterns and trends to make decisions using data.