# *South Carolina*
# *Curricular Standards*
# *Mathematics - Grade 2*
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| *Benchmark Number* | *Benchmark*<br>• *Instructional Targets* | *Gourmet Resource* | *Taught* | *Tested* |
|---|---|---|---|---|
| | **Number and Operations** | | | |
| | **I. Understand numbers, ways of representing numbers, relationships among numbers, and number systems.** | | | |
| **A.** | **Count with understanding and recognize "how many" in sets of objects.** | | | |
| **B.** | **Use multiple models to develop initial understandings of place value and the base-ten number system.** | | | |
| **1** | • *Using a calculator, explain the patterns in the numeration system relating to place value in numerals up to four digits.* | | | |
| ***2** | • *Identify the place value of each digit in a four-digit numeral.* | **Appetizers 1 B; Main Dish Objective 1 (Number Concepts) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| **C.** | **Develop understanding of the relative position and magnitude of whole numbers and of ordinal and cardinal numbers and their connections.** | | | |
| **1** | • *Name the positions first through thirtieth, using an ordered set of objects.* | **Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| ***2** | • *Compare and write two whole numerals between 0 and 999, using symbols and words (>, <, =, is greater than, is less than, and equals).* | **Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |

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| **D.** | **Develop a sense of whole numbers and represent and use them in flexible ways, including relating, composing, and decomposing numbers.** | | | |
| **E.** | **Connect number words and numerals to the quantities they represent, using various physical models and representations.** | | | |
| **1** | • *Write in words whole numbers through 20.* | **Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| **F.** | **Understand and represent commonly used fractions, such as 1/4, 1/3, and 1/2.** | | | |
| **1** | • *Write the fractions that represent 1/4, 1/3, and 1/2 of a set or region.* | **Appetizers 1 D; Main Dish Objective 1 (Number Concepts) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| ***2** | • *Using models, order 1/4, 1/3, and 1/2.* | **Appetizers 1 D; Main Dish Objective 1 (Number Concepts) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| | **II. Understand meanings of operations and how they relate to one another.** | | | |
| **A.** | **Understand various meanings of addition and subtraction of whole numbers and the relationship between the two operations.** | | | |
| **1** | • *Demonstrate the inverse relationship between addition and subtraction.* | **Appetizers 2 D; Main Dish Objective 2 (Mathematical Relations) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |

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| **B.** | **Understand the effects of adding and subtracting whole numbers.** | | | |
| **C.** | **Understand situations that entail multiplication and division, such as equal groupings of objects and sharing equally.** | | | |
| ***1** | • *Describe models of equal groupings (multiplication) as repeated addition and arrays.* | **Appetizers 8 A; Main Dish Objective 8 (Multiplication) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| ***2** | • *Describe models of sharing equally (division) as repeated subtraction and arrays.* | **Appetizers 9 A; Main Dish Objective 9 (Division) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| | **III. Compute fluently and make reasonable estimates.** | | | |
| **A.** | **Develop and use strategies for whole-number computations, with a focus on addition and subtraction.** | | | |
| ***1** | • *Demonstrate the connection between the base-ten concepts and computational strategies.* | **Appetizers 2 A, B, & C; Main Dish Objective 2 (Mathematical Relations) Lessons 1, 2, & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| ***2** | • *Solve addition and subtraction problems (two-step solutions) using data from simple charts and picture graphs.* | **Appetizers 5 B; 12 C; Main Dish Objectives 5 (Probability/Statistics) Lesson 2; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |

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| **B.** | **Develop fluency with basic number combinations for addition and subtraction.** | | | |
| ***1** | • *Write addition and subtraction facts in numerical sentences.* | **Appetizers 2 A, B, & C; 6 A; 7 A; Main Dish Objectives 2 (Mathematical Relations) Lessons 1, 2, & 3; 6 (Addition) Lesson 1; 7 (Subtraction) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| ***2** | • *Add and subtract pairs of two-digit whole numbers with and without regrouping.* | **Appetizers 6 B; 7 B; Main Dish Objectives 6 (Addition) Lesson 2; 7 (Subtraction) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| ***3** | • *Find missing addends and subtrahends in number combinations up to 20.* | **Appetizers 2 A, B, & C; 6 A; 7 A; Main Dish Objectives 2 (Mathematical Relations) Lessons 1, 2, & 3; 6 (Addition) Lesson 1; 7 (Subtraction) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| **C.** | **Use a variety of methods and tools to compute, including objects, mental computation, estimation, paper and pencil, and calculators.** | | | |
| **1** | • *Given choices, select a reasonable estimate for a set of at most 1,000 objects.* | **Appetizers 10 A & B; Main Dish Objective 10 (Estimation) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| **2** | • *Justify the most reasonable answer for an addition and subtraction problem using paper and pencil and using a calculator.* | **Appetizers 13 A; Main Dish Objective 13 (Reasonableness) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |

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| **3** | • *Select the most efficient method to solve an addition or subtraction problem.* | **Appetizers 11 A; 12 B; Main Dish Objectives 11 (Problem Solving) Lesson 1; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| ***4** | • *Round numbers up to 90 to the nearest 10.* | **Appetizers 10 C; Main Dish Objective 10 (Estimation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| | **Algebra** | | | |
| | **I. Understand patterns, relations, and functions.** | | | |
| **A.** | **Sort, classify, and order objects by size, number, and other properties.** | | | |
| **1** | • *Sequence random numerals between 1 and 1,000.* | **Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| **B.** | **Recognize, describe, and extend patterns such as sequences of sounds and shapes or simple numeric patterns and translate from one representation to another.** | | | |
| **1** | • *Create, extend, and label a wide variety of patterns, orally and in writing, by using symbols and objects.* | **Appetizers 2 E, F, & G; Main Dish Objective 2 (Mathematical Relations) Lessons 5, 6, & 7; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| ***2** | • *Skip count by any numeral (1-10) using mental mathematics, paper and pencil, hundreds charts, calculators, and concrete objects (starting at any numeral).* | **Appetizers 1 C; 2 E; Main Dish Objectives 1 (Number Concepts) Lesson 3; 2 (Mathematical Relations) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |

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| **C.** | **Analyze how both repeating and growing patterns are generated.** | | | |
| **1** | • *Create and describe a general rule for a growing pattern and a repeating pattern, both orally and in writing.* | **Appetizers 2 E & F; Main Dish Objective 2 (Mathematical Relations) Lessons 5 & 6; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| | **II. Represent and analyze mathematical situations and structures using algebraic symbols.** | | | |
| **A.** | **Illustrate general principles and properties of operations, such as commutativity, using specific numbers.** | | | |
| **B.** | **Use concrete, pictorial, and verbal representations to develop an understanding of invented and conventional symbolic notations.** | | | |
| ***1** | • *Use symbolic notation to represent a statement of equality ( __ + 2 = 5; 3 + 6 = __ ).* | **Appetizers 2 A, B, & D; Main Dish Objective 2 (Mathematical Relations) Lessons 1, 2, & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| | **III. Use mathematical models to represent and understand quantative relationships.** | | | |
| **A.** | **Model situations that involve the addition and subtraction of whole numbers, using objects, pictures, and symbols.** | | | |
| ***1** | • *Use concrete and pictorial models to develop an understanding of the concepts of addition, subtraction, multiplication, and division with whole numbers.* | **Appetizers 2 A, B, & C; 6 A; 7 A; 8 A; 9 A; 11 A & B; 12 A & B; Main Dish Objectives 2 (Mathematical Relations) Lessons 1, 2, & 3; 6 (Addition) Lesson 1; 7 (Subtraction) Lesson 1; 8 (Multiplication) Lesson 1; 9 (Division) Lesson 1; 11 (Problem Solving) Lessons 1 & 2; 12 (Mathematical Representation) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |

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| | **IV. Analyze change in various contexts.** | | | |
| **A.** | **Describe qualitative change, such as a student's growing taller.** | | | |
| **1** | • *Compare and contrast the attribute changes over time in two or more qualities.* | **Appetizers 2 G; 5 B; Main Dish Objectives 2 (Mathematical Relations) Lesson 7; 5 (Probability/Statistics) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| **B.** | **Describe quantative change, such as a student's growing two inches in one year.** | | | |
| **1** | • *Compare and contrast the quantative changes over time in two or more quantities.* | **Appetizers 2 G; 5 B; Main Dish Objectives 2 (Mathematical Relations) Lesson 7; 5 (Probability/Statistics) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| | **Geometry** | | | |
| | **I. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships.** | | | |
| **A.** | **Recognize, name, build, draw, compare, and sort two- and three-dimensional shapes.** | | | |
| **1** | • *Describe, model, and draw two-dimensional geometric shapes with up to eight sides.* | **Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| **2** | • *Identify, name, model, and draw two-dimensional geometric shapes with up to eight sides.* | **Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |

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| **B.** | **Describe attributes and parts of two- and three-dimensional shapes.** | | | |
| ***1** | • *Compare and describe three-dimensional shapes according to the number and shape of faces, edges, bases, and corners (cube, rectangular solid, square pyramid).* | **Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| ***2** | • *Compare and contrast plane and solid geometric shapes (circle/sphere, square/cube, triangle/pyramid, rectangle/rectangular solid).* | **Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| **C.** | **Investigate and predict the results of putting together and taking apart two- and three-dimensional shapes.** | | | |
| **1** | • *Predict the results of combining and partitioning two- and three-dimensional geometric shapes.* | **Appetizers 3 C; Main Dish Objective 3 (Geometry) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| | **II. Specify locations and describe spatial relationships using coordinate geometry and other representational systems.** | | | |
| **A.** | **Describe, name, and interpret relative positions in space and apply ideas about relative position.** | | | |
| **B.** | **Describe, name, and interpret direction and distance in navigating space and apply ideas about direction and distance.** | | | |
| **1** | • *Compare distances between objects on a pictorial map using words such as closer to and farther than.* | **N/A** | | |
| **C.** | **Find and name locations with simple relationships such as "near to" and in coordinate systems such as maps.** | | | |
| ***1** | • *Identify locations on a pictorial map using the positional words left, right, north, south, east, and west.* | **N/A** | | |

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| | **III. Apply transformations and use symmetry to analyze mathematical situations.** | | | |
| **A.** | **Recognize and apply slides, flips, and turns.** | | | |
| **1** | • *Predict the results of and demonstrate transformations of geometric shapes, including slides, flips, and turns.* | | | |
| **B.** | **Recognize and create shapes that have symmetry.** | | | |
| ***1** | • *Using various concrete materials, create figures that are symmetrical across a line.* | **Appetizers 3 C; Main Dish Objective 3 (Geometry) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| | **IV. Use visualization, spatial reasoning, and geometric modeling to solve problems.** | | | |
| **A.** | **Create mental images of geometric shapes using spatial memory and spatial visualization.** | | | |
| **1** | • *Create geometric objects based on mental images.* | **Appetizers 3 C; Main Dish Objective 3 (Geometry) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| **B.** | **Recognize and represent shapes from different perspectives.** | | | |
| **1** | • *Describe congruent and similar shapes.* | **Appetizers 3 C; Main Dish Objective 3 (Geometry) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| **C.** | **Relate ideas in geometry to ideas in number and measurement.** | | | |
| **1** | • *Analyze and predict the effect on the number of pieces used to form a geometric shape when various arrangements are formed using the same number of pieces.* | **Appetizers 3 C; Main Dish Objective 3 (Geometry) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |

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| **2** | • *Using square tiles, grid paper, and cubes, connect geometry to related concepts in measurement and number.* | | | |
| **D.** | **Recognize geometric shapes and structures in the environment and specify their location.** | | | |
| **1** | • *Describe relationships among geometric shapes in the environment, including applications in science, art, and architecture.* | **Appetizers 3 A, B, & C; Main Dish Objective 3 (Geometry) Lessons 1, 2, & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| **2** | • *Recognize, describe, extend, and create a wide variety of patterns using geometric symbols and objects.* | **Appetizers 3 A, B, & C; Main Dish Objective 3 (Geometry) Lessons 1, 2, & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| | **Measurement** | | | |
| | **I. Understand measurable attributes of objects and the units, systems, and processes of measurement.** | | | |
| **A.** | **Recognize the attributes of length, volume, weight, area, and time.** | | | |
| ***1** | • *Discriminate among the functions of length, capacity, weight (mass), perimeter, area, time, and temperature.* | **Appetizers 4 A, C, & D; Main Dish Objective 4 (Measurement) Lessons 1, 3, & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| **B.** | **Understand relationships among units and convert from one unit to another within the same system.** | | | |

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| C. | **Understand how to measure using nonstandard and standard units.** | | | |
| *1 | • *Use nonstandard and standard (U.S. customary or English and metric) systems of measurement:*<br>*a. use actual measuring devices to measure length, volume, and mass; and*<br>*b. use actual measuring devices to compare metric and U.S. customary units (cups, pints, quarts, gallons, and liters) for measuring liquid volume, using the concepts of more, less, and equivalent.* | **Appetizers 4 A & B; Main Dish Objective 4 (Measurement) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| 2 | • *Measure the length of an object in inches and/or half inches.* | **Appetizers 4 A & B; Main Dish Objective 4 (Measurement) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| D. | **Select an appropriate unit and tool for the attribute being measured.** | | | |
| 1 | • *Determine the appropriate unit and instrument needed for specific measurement in length, volume, weight/mass, area, and temperature.* | **Appetizers 4 A, B, & D; Main Dish Objective 4 (Measurement) Lessons 1, 2, & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| | **II. Apply appropriate techniques, tools, and formulas to determine measurements.** | | | |
| A. | **Measure with multiple copies of units of the same size, such as paper clips laid to an end.** | | | |
| B. | **Use repetition of a single unit to measure something larger than the unit, for instance, measuring the length of a room with a single meter stick.** | | | |

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| **C.** | **Develop and use formulas to determine the circumference of circles and the area of triangles, parallelograms, trapezoids, and circles and develop strategies to find the area of more-complex shapes.** | | | |
| ***1** | • *Use tools to compare units of measure within a given system:*<br>*a. tell and write time to the quarter hour, using analog and digital clocks;*<br>*b using a calendar, determine past and future days of the week and identify specific dates;*<br>*c. convert money and make money exchanges;*<br>*d. read temperatures using Celsius and Fahrenheit thermometers.* | **Appetizers 2 F & G; 4 C, D, & E; 6 C; Main Dish Objectives 2 (Mathematical Relations) Lessons 6 & 7; 4 (Measurement) Lessons 3, 4, & 5; 6 (Addition) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| **2** | • *Determine the total value of a collection of coins.* | **Appetizers 6 C; Main Dish Objective 6 (Addition) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| **3** | • *Make change up to one dollar by counting up.* | **Appetizers 6 C; Main Dish Objective 6 (Addition) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| ***4** | • *Create and solve money-story problems.* | **Appetizers 6 C & D; Main Dish Objective 6 (Addition) Lessons 3 & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |

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| **D.** | **Develop common referents for measures to make comparisons and estimates.** | | | |
| **1** | • *Make, use, and evaluate the reasonableness of estimates of measurement.* | **Appetizers 10 A; 13 A; Main Dish Objectives 10 (Estimation) Lesson 1; 13 (Reasonableness) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| **2** | • *Relate measurements to other aspects of mathematics and to other disciplines.* | **Appetizers 10 B; Main Dish Objective 10 (Estimation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| | **Data Analysis and Probability** | | | |
| | **I. Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them.** | | | |
| **A.** | **Pose questions and gather data about themselves and their surroundings.** | | | |
| **1** | • *Collect data using surveys.* | **Appetizers 5 A; 12 C; Main Dish Objectives 5 (Probability/Statistics) Lesson 1; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| **B.** | **Sort and classify objects according to their attributes and organize data about the objects.** | | | |
| ***1** | • *Collect, sort, and organize data.* | **Appetizers 5 A & B; 12 C; Main Dish Objectives 5 (Probability/Statistics) Lessons 1 & 2; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |

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| **C.** | **Represent data using concrete objects, pictures, and graphs.** | | | |
| ***1** | • *Use organized data to create charts, graphs, and tables.* | **Appetizers 5 A & B; 12 C; Main Dish Objectives 5 (Probability/Statistics) Lessons 1 & 2; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| | **II. Select and use appropriate statistical methods to analyze data.** | | | |
| **A.** | **Describe parts of the data and the set of data as a whole to determine what the data shows.** | | | |
| **1** | • *Explain the trends of a data set (e.g., increasing, decreasing, random).* | **Appetizers 5 B; 12 C; Main Dish Objectives 5 (Probability/Statistics) Lesson 2; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |
| | **III. Develop and evaluate inferences and predictions that are based on data.** | | | |
| **A.** | **Discuss events related to students' experiences as likely or unlikely.** | | | |
| ***1** | • *Describe events as more likely or less likely to occur.* | **Appetizers 5 C; Main Dish Objective 5 (Probability/Statistics) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics** | | |