

Colorado
Curricular Standards
Mathematics - Grade 3
Correlations with Gourmet Curriculum Press, Inc.®
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Benchmark Number	Benchmark • Instructional Targets	Gourmet Resource	Taught	Tested
	Standard 1: Students develop number sense and use number and number relationships in problem-solving situations and communicate the reasoning used in solving these problems.			
1.1	<i>Demonstrating meanings for whole numbers, commonly-used fractions and decimals (for example, 1/3, 3/4, 0.5, 0.75), and representing equivalent forms of the same number through the use of physical models, drawings, calculators, and computers.</i>			
	<ul style="list-style-type: none"> using objects and pictures, represent whole numbers including odds and evens from 0 to 10,000 	Appetizers 1 C; Main Dish Objective 1 (Number Concepts) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	<ul style="list-style-type: none"> apply equalities and inequalities with whole numbers from 0 to 10,000 using the symbols =, •, <, > 	Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
	<ul style="list-style-type: none"> using concrete materials (for example, fraction strips), compare and order fractions with like denominators, such as halves, thirds, fourths, eighths, and tenths 	Appetizers 1 D; Main Dish Objective 1 (Number Concepts) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	<ul style="list-style-type: none"> demonstrate different combinations of coins for change (for example, 52¢ = 2 quarters and 2 pennies) 	Appetizers 1 F; Main Dish Objective 1 (Number Concepts) Lesson 6; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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	<ul style="list-style-type: none"> using concrete materials, make change up to \$1.00 	Appetizers 1 F; Main Dish Objective 1 (Number Concepts) Lesson 6; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
1.2	Reading and writing whole numbers and knowing place-value concepts and numeration through their relationships to counting, ordering, and grouping.			
	<ul style="list-style-type: none"> read and write numerals from 0 to 10,000 in meaningful contexts 	Appetizers 1 B & E; Main Dish Objective 1 (Number Concepts) Lessons 2 & 5; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
	<ul style="list-style-type: none"> read and write the number words for selected numbers from zero to one thousand 	Appetizers 1 B & E; Main Dish Objective 1 (Number Concepts) Lessons 2 & 5; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
	<ul style="list-style-type: none"> order according to place value (for example, given 9 ones, 5 tens, 4 hundreds, and 7 thousands, the student can write the number 7,459; given the number 7,459, the student can show 7 thousands, 4 hundreds, 5 tens, and 9 ones) 	Appetizers 1 B; Main Dish Objective 1 (Number Concepts) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	<ul style="list-style-type: none"> identify place value through ten thousands (for example, in 86,243, '6' is in the thousands place) 	Appetizers 1 B; Main Dish Objective 1 (Number Concepts) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	<ul style="list-style-type: none"> write four-digit numbers in expanded form (for example, $7,459 = 7,000 + 400 + 50 + 9$) 	Appetizers 1 B; Main Dish Objective 1 (Number Concepts) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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1.3	Using numbers to count, to measure, to label, and to indicate location.			
	<ul style="list-style-type: none"> count forward from any even number by 2's; and from any number by 10's and 100's (for example, 216, 316, 416, 516,...) 	Appetizers 2 C; Main Dish Objective 2 (Mathematical Relations) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
	<ul style="list-style-type: none"> use ordinal positions for selected whole numbers greater than thirty-first 	Appetizers 1 E; Main Dish Objective 1 (Number Concepts) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	<ul style="list-style-type: none"> sequence selected whole numbers from 0 to 1,000 	Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	<ul style="list-style-type: none"> locate and label $\frac{1}{2}$'s and multiples of $\frac{1}{4}$'s between whole numbers on the number line 	Appetizers 2 D; Main Dish Objective 2 (Mathematical Relations) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	<ul style="list-style-type: none"> locate and label a point in the first quadrant of the coordinate plane (for example, locates the point (11,15)) 			
1.4	Developing, testing and explaining conjectures about properties of whole numbers, and commonly used fractions and decimals (for example, 1/3, 3/4, 0.5, 0.75).			
	<ul style="list-style-type: none"> verify the commutative and associative properties of addition and multiplication of whole numbers 	Appetizers 2 A & B; Main Dish Objective 2 (Mathematical Relations) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
	<ul style="list-style-type: none"> verify the multiplication properties of zero and one with whole numbers 	Appetizers 8 A; Main Dish Objective 8 (Multiplication) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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1.5	Using number sense to estimate and justify the reasonableness of solutions to problems involving whole numbers, and commonly used fractions and decimals (for example, 1/3, 3/4, 0.5, 0.75).			
	<ul style="list-style-type: none"> estimate sums and differences first by rounding to the nearest ten and hundred prior to performing the operation and, then, using the estimate to determine the reasonableness of the solution 	Appetizers 10 B & D; Main Dish Objective 10 (Estimation) Lessons 2 & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
	<ul style="list-style-type: none"> estimate products first by rounding to the nearest ten prior to performing the operation, and then using the estimate to determine the reasonableness of the solution 			
	Standard 2: Students use algebraic methods to explore, model, and describe patterns and functions involving numbers, shapes, data, and graphs in problem-solving situations and communicate the reasoning used in solving these problems.			
2.1	Reproducing, extending, creating, and describing patterns and sequences using a variety of materials (for example, beans, toothpicks, pattern blocks, calculators, unifix cubes, colored tiles).			
	<ul style="list-style-type: none"> reproduce, extend, create, and describe patterns, such as in common fractions, geometric shapes, money, measurement, addition, subtraction, and multiplication facts 	Appetizers 1 D & F; 2 A, B, & C; 3 A & B; 4 A; 8 A; Main Dish Objectives 1 (Number Concepts) Lessons 4 & 6; 2 (Mathematical Relations) Lessons 1, 2, & 3; 3 (Geometry) Lessons 1 & 2; 4 (Measurement) Lesson 1; 8 (Multiplication) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
	<ul style="list-style-type: none"> find missing elements of patterns and multiples 	Appetizers 2 C; 8 A; Main Dish Objectives 2 (Mathematical Relations) Lesson 3; 8 (Multiplication) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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2.2	<i>Describing patterns and other relationships using tables, graphs, and open sentences.</i>			
	• <i>given data, extend a table and plot points on a coordinate plane</i>			
2.3	<i>Recognizing when a pattern exists and using that information to solve a problem.</i>			
	• <i>identify a rule using addition or subtraction and solve a problem using the rule</i>	Appetizers 11 A; 12 A & D; Main Dish Objectives 11 (Problem Solving) Lesson 1; 12 (Mathematical Representation) Lessons 1 & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.4	<i>Observing and explaining how a change in one quantity can produce a change in another (for example, the relationship between the number of bicycles and the numbers of wheels).</i>			
	• <i>determine how the change in one variable affects the change in the other by addition or subtraction</i>			
	Standard 3: Students use data collection and analysis, statistics, and probability in problem-solving situations and communicate the reasoning and processes used in solving these problems.			
3.1	<i>Constructing, reading, and interpreting displays of data including tables, charts, pictographs, and bar graphs.</i>			
	• <i>select the appropriate type of graph to use in various problem-solving situations</i>	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		
	• <i>collect and display data using surveys, tallies, bar graphs, dot plots, pictographs, or tables</i>	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		
	• <i>use a computer to create bar and circle graphs</i>			

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3.2	<i>Interpreting data using the concepts of largest, smallest, most often, and middle.</i>			
	<ul style="list-style-type: none"> <i>determine the median and mode from a data set</i> 			
	<ul style="list-style-type: none"> <i>using various displays of data, interpret and draw conclusions</i> 	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		
3.3	<i>Generating, analyzing, and making predictions based on data obtained from surveys and chance devices.</i>			
	<ul style="list-style-type: none"> <i>use survey data to make a prediction from various displays of data</i> 	Appetizers 5 A & B; 12 C; Main Dish Objectives 5 (Probability/Statistics) Extension Activity; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
	<ul style="list-style-type: none"> <i>analyze the results of rolling a number cube</i> 	Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Lesson 2 - Extension Activities; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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	<ul style="list-style-type: none"> <i>predict the most likely outcome from spinners</i> 	Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Lesson 2 - Extension Activities; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
	<ul style="list-style-type: none"> <i>analyze the fairness of different spinners</i> 	Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Lesson 2 - Extension Activities; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
3.4	<i>Solving problems using various strategies for making combinations (for example, determining the number of different outfits that can be made using two blouses and three skirts).</i>			
	<ul style="list-style-type: none"> <i>determine the number of outcomes when rolling a number cube</i> 	Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Lesson 2 - Extension Activities; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	<ul style="list-style-type: none"> <i>using manipulatives or pictures, determine the possible combinations of matching a set containing two elements with a set containing three elements</i> 			

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	Standard 4: Students use geometric concepts, properties, and relationships in problem-solving situations and communicate the reasoning used in solving these problems.			
4.1	<i>Recognizing shapes and their relationships (for example, symmetry and congruence) using a variety of materials (for example, pasta, boxes, pattern blocks).</i>			
	• <i>compare similarities and differences between the concepts of similarity and congruence</i>	Appetizers 3 C; Main Dish Objective 3 (Geometry) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
	• <i>make a pattern by rotating, flipping, and sliding a two-dimensional figure</i>	Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
	• <i>identify lines of symmetry of regular hexagons, pentagons, and octagons</i>	Appetizers 3 C; Main Dish Objective 3 (Geometry) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
4.2	<i>Identifying, describing, drawing, comparing, classifying, and building physical models of geometric figures.</i>			
	• <i>identify points, lines, line segments, and rays</i>	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	• <i>recognize and identify hexagons, pentagons, and octagons</i>	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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	<ul style="list-style-type: none"> • <i>classify angles as obtuse, acute, or right</i> 			
	<ul style="list-style-type: none"> • <i>draw obtuse, acute, and right angles</i> 			
	<ul style="list-style-type: none"> • <i>compare what is the same and what is different between two-dimensional figures and three-dimensional figures</i> 	Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	<ul style="list-style-type: none"> • <i>draw rectangles and squares on a coordinate plane and identify the vertices with coordinates</i> 			
	<ul style="list-style-type: none"> • <i>identify cubes, spheres, cylinders, cones, and pyramids</i> 	Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	<ul style="list-style-type: none"> • <i>build cubes (for example, with marshmallows and toothpicks) and spheres (for example, soap bubbles)</i> 	Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lessons 1 & 2 - Center Activities; Applications; Final Tests; Reasonableness Problems; Journal Topics		
4.3	<i>Relating geometric ideas to measurement and number sense.</i>			
	<ul style="list-style-type: none"> • <i>measure the sides and perimeters of geometric shapes to the nearest half inch and centimeter</i> 	Appetizers 4 E; Main Dish Objective 4 (Measurement) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	<ul style="list-style-type: none"> • <i>measure the area of geometric figures using nonstandard units</i> 	Appetizers 4 F; Main Dish Objective 4 (Measurement) Lesson 6; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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4.4	<i>Solving problems using geometric relationships and spatial reasoning (for example, using rectangular coordinates to locate objects, constructing models of three-dimensional objects).</i>			
	<ul style="list-style-type: none"> <i>draw a picture or diagram to solve a problem (for example, use a number line to locate one half)</i> 	Appetizers 2 D; Main Dish Objective 2 (Mathematical Relations) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	<ul style="list-style-type: none"> <i>investigate and predict geometric shapes by combining and subdividing groups of pattern blocks</i> 	Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	<ul style="list-style-type: none"> <i>investigate and predict the result of changing the lengths of sides of polygons</i> 	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1 - Center Activities; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	<ul style="list-style-type: none"> <i>investigate and predict the geometric figures that result from cutting along a line of symmetry</i> 	Appetizers 3 C; Main Dish Objective 3 (Geometry) Lesson 3 - Center Activities; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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	Standard 5: Students use a variety of tools and techniques to measure, apply the results in problem-solving situations, and communicate the reasoning used in solving these problems.			
5.1	<i>Knowing, using, describing, and estimating measures of length, perimeter, capacity, weight, time, and temperature; and</i>			
5.3	<i>Demonstrating the process of measuring and explaining the concepts related to units of measurement.</i>			
	• <i>tell time to the nearest five minutes, using an analog and digital clock</i>	Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
	• <i>estimate how long a minute is</i>	Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
	• <i>estimate and measure the length of objects</i>	Appetizers 4 B; Main Dish Objective 4 (Measurement) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
	• <i>estimate and measure the perimeter of an object with a string measured in U.S. customary and metric units</i>	Appetizers 4 E; Main Dish Objective 4 (Measurement) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	• <i>estimate and measure areas using non-standard units</i>	Appetizers 4 F; Main Dish Objective 4 (Measurement) Lesson 6; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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	<ul style="list-style-type: none"> estimate and measure the capacity of a container in cups, pints, quarts, gallons, and liters 	Appetizers 4 D; Main Dish Objective 4 (Measurement) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	<ul style="list-style-type: none"> estimate and weigh an object on a balance or scale to the nearest ounce 	Appetizers 4 D; Main Dish Objective 4 (Measurement) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	<ul style="list-style-type: none"> measure temperatures in both Fahrenheit and Celsius 	Appetizers 4 C; Main Dish Objective 4 (Measurement) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
	<ul style="list-style-type: none"> describe the units for measuring time, length, area, capacity, and temperature 	Appetizers 4 A, B, C, D, & F; Main Dish Objective 4 (Measurement) Lessons 1, 2, 3, 4, & 6; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
	<ul style="list-style-type: none"> know the number of seconds in a minute, hours in a day, days in a month, days in a year, pints in a quart, quarts in a gallon, and centimeters in a meter 	Appetizers 4 A, B, & D; Main Dish Objective 4 (Measurement) Lessons 1, 2, & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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5.2	Comparing and ordering objects according to measurable attributes (for example, longest to shortest, lightest to heaviest).			
	<ul style="list-style-type: none"> compare objects according to the measurable attributes of length, area, capacity, weight, and temperature 	Appetizers 4 B, C, D, & F; Main Dish Objective 4 (Measurement) Lessons 2, 3, 4, & 6; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	<ul style="list-style-type: none"> order objects according to the measurable attributes of length, area, capacity, weight, and temperature 	Appetizers 4 B, C, D, & F; Main Dish Objective 4 (Measurement) Lessons 2, 3, 4, & 6; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	<ul style="list-style-type: none"> compare and order various times 	Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
5.4	Using the approximate measures of familiar objects (for example, the width of your finger, the temperature of a room, the weight of a gallon of milk) to develop a sense of measurement.			
	<ul style="list-style-type: none"> use familiar objects as referents for measurement (for example, the width of the index fingernail equals approximately one centimeter; ten pennies weigh approximately an ounce) 	Appetizers 10 A; Main Dish Objective 10 (Estimation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
5.5	Selecting and using appropriate standard and non-standard units of measurement in problem-solving situations.			
	<ul style="list-style-type: none"> select the appropriate units of measurement of time, length, area, capacity, weight, and temperature 	Appetizers 4 A, B, C, D, & F; Main Dish Objective 4 (Measurement) Lessons 1, 2, 3, 4, & 6; Applications; Final Tests; Reasonableness Problems; Journal Topics		