

**California  
Curricular Standards  
Mathematics - Grade 3  
Correlations with Gourmet Curriculum Press, Inc.®  
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<b>Benchmark Number</b>	<b>Benchmark • Teaching Targets</b>	<b>Gourmet Resource</b>	<b>Taught</b>	<b>Tested</b>
	By the end of grade three, students deepen their understanding of place value and their understanding of and skill with addition, subtraction, multiplication, and division of whole numbers. Students estimate, measure, and describe objects in space. They use patterns to help solve problems. They represent number relationships and conduct simple probability experiments.			
	<b>Number Sense</b>			
<b>1.0</b>	<b>Students understand the place value of whole numbers:</b>			
<b>1.1</b>	<ul style="list-style-type: none"> <li>Count, read, and write whole numbers to 10,000.</li> </ul>	<b>Appetizers 1 B &amp; E; Main Dish Objective 1 (Number Concepts) Lessons 2 &amp; 5; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom</b>		
<b>1.2</b>	<ul style="list-style-type: none"> <li>Compare and order whole numbers to 10,000.</li> </ul>	<b>Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom</b>		
<b>1.3</b>	<ul style="list-style-type: none"> <li>Identify the place value for each digit in numbers to 10,000.</li> </ul>	<b>Appetizers 1 B; Main Dish Objective 1 (Number Concepts) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>1.4</b>	<ul style="list-style-type: none"> <li>Round off numbers to 10,000 to the nearest ten, hundred, and thousand.</li> </ul>	<b>Appetizers 10 B &amp; D; Main Dish Objective 10 (Estimation) Lessons 2 &amp; 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom</b>		

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1.5	<ul style="list-style-type: none"> <li>Use expanded notation to represent numbers (e.g., <math>3,206 = 3,000 + 200 + 6</math>).</li> </ul>	Appetizers 1 B; Main Dish Objective 1 (Number Concepts) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.0	<b>Students calculate and solve problems involving addition, subtraction, multiplication, and division:</b>			
2.1	<ul style="list-style-type: none"> <li>Find the sum or difference of two whole numbers between 0 and 10,000.</li> </ul>	Appetizers 6 A, B, C, & D; 7 A; Main Dish Objectives 6 (Addition) Lessons 1, 2, 3, & 4; 7 (Subtraction) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
2.2	<ul style="list-style-type: none"> <li>Memorize to automaticity the multiplication table for numbers between 1 and 10.</li> </ul>	Appetizers 8 A; Main Dish Objective 8 (Multiplication) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
2.3	<ul style="list-style-type: none"> <li>Use the inverse relationship of multiplication and division to compute and check results.</li> </ul>	Appetizers 2 A; 8 A; 9 A Main Dish Objectives 2 (Mathematical Relations) Lesson 1; 8 (Multiplication) Lesson 1; 9 (Division) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
2.4	<ul style="list-style-type: none"> <li>Solve simple problems involving multiplication of multidigit numbers by one-digit numbers (<math>3,671 \times 3 = \underline{\quad}</math>).</li> </ul>			
2.5	<ul style="list-style-type: none"> <li>Solve division problems in which a multidigit number is evenly divided by a one-digit number (<math>135 \div 5 = \underline{\quad}</math>).</li> </ul>			
2.6	<ul style="list-style-type: none"> <li>Understand the special properties of 0 and 1 in multiplication and division.</li> </ul>			

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2.7	<ul style="list-style-type: none"> <li>Determine the unit cost when given the total cost and number of units.</li> </ul>	Appetizers 9 A & C; Main Dish Objective 9 (Division) Lessons 1 & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
2.8	<ul style="list-style-type: none"> <li>Solve problems that require two or more of the skills mentioned above.</li> </ul>	Appetizers 11 A, B, & D; 12 A & B; Main Dish Objectives 11 (Problem Solving) Lessons 1, 2, & 4; 12 (Mathematical Representation) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
3.0	<b>Students understand the relationship between whole numbers, simple fractions, and decimals:</b>			
3.1	<ul style="list-style-type: none"> <li>Compare fractions represented by drawings or concrete materials to show equivalency and to add and subtract simple fractions in context (e.g., <math>\frac{1}{2}</math> of a pizza is the same amount as <math>\frac{2}{4}</math> of another pizza that is the same size; show that <math>\frac{3}{8}</math> is larger than <math>\frac{1}{4}</math>).</li> </ul>	Appetizers 1 D; Main Dish Objective 1 (Number Concepts) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
3.2	<ul style="list-style-type: none"> <li>Add and subtract simple fractions (e.g., determine that <math>\frac{1}{8} + \frac{3}{8}</math> is the same as <math>\frac{1}{2}</math>).</li> </ul>			
3.3	<ul style="list-style-type: none"> <li>Solve problems involving addition, subtraction, multiplication, and division of money amounts in decimal notation and multiply and divide money amounts in decimal notation by using whole-number multipliers and divisors.</li> </ul>	Appetizers 1 F & G; 7 B; 9 C; Main Dish Objectives 1 (Number Concepts) Lessons 6 & 7; 7 (Subtraction) Lesson 2; 9 (Division) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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3.4	<ul style="list-style-type: none"> <li>Know and understand that fractions and decimals are two different representations of the same concept (e.g., 50 cents is <math>\frac{1}{2}</math> of a dollar, 75 cents is <math>\frac{3}{4}</math> of a dollar).</li> </ul>	Appetizers 1 D & G; Main Dish Objective 1 (Number Concepts) Lessons 4 & 7; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>Algebra and Functions</b>				
1.0	<b>Students select appropriate symbols, operations, and properties to represent, describe, simplify, and solve simple number relationships:</b>			
1.1	<ul style="list-style-type: none"> <li>Represent relationships of quantities in the form of mathematical expressions, equations, or inequalities.</li> </ul>	Appetizers 2 A; Main Dish Objective 2 (Mathematical Relations) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
1.2	<ul style="list-style-type: none"> <li>Solve problems involving numeric equations or inequalities.</li> </ul>	Appetizers 2 A & B; 12 A & B; Main Dish Objectives 2 (Mathematical Relations) Lessons 1 & 2; 12 (Mathematical Representation) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
1.3	<ul style="list-style-type: none"> <li>Select appropriate operational and relational symbols to make an expression true (e.g., if <math>4 \_ 3 = 12</math>, what operational symbol goes in the blank?).</li> </ul>	Appetizers 2 A & B; 12 A & B; Main Dish Objectives 2 (Mathematical Relations) Lessons 1 & 2; 12 (Mathematical Representation) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
1.4	<ul style="list-style-type: none"> <li>Express simple unit conversions in symbolic form (e.g., <math>\_ \text{ inches} = \_ \text{ feet} \times 12</math>).</li> </ul>	Appetizers 4 B; Main Dish Objective 4 (Measurement) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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1.5	<ul style="list-style-type: none"> <li>Recognize and use the commutative and associative properties of multiplication (e.g., if <math>5 \times 7 = 35</math>, then what is <math>7 \times 5</math>? and if <math>5 \times 7 \times 3 = 105</math>, then what is <math>7 \times 3 \times 5</math>?).</li> </ul>	Appetizers 2 A; 8 A; Main Dish Objectives 2 (Mathematical Relations) Lesson 1; 8 (Multiplication) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.0	<b>Students represent simple functional relationships:</b>			
2.1	<ul style="list-style-type: none"> <li>Solve simple problems involving a functional relationship between two quantities (e.g., find the total cost of multiple items given the cost per unit).</li> </ul>	Appetizers 8 A; Main Dish Objective 8 (Multiplication) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.2	<ul style="list-style-type: none"> <li>Extend and recognize a linear pattern by its rules (e.g., the number of legs on a given number of horses may be calculated by counting by 4s or by multiplying the number of horses by 4).</li> </ul>	Appetizers 1 C; 2 B; Main Dish Objectives 1 (Number Concepts) Lesson 3; 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>Measurement and Geometry</b>				
1.0	<b>Students choose and use appropriate units and measurement tools to quantify the properties of objects:</b>			
1.1	<ul style="list-style-type: none"> <li>Choose the appropriate tools and units (metric and U.S.) and estimate and measure the length, liquid volume, and weight/mass of given objects.</li> </ul>	Appetizers 4 B & D; 10 A, B, & D; 13 A; Main Dish Objectives 4 (Measurement) Lessons 2 & 4; 10 (Estimation) Lessons 1, 2, & 4; 13 (Reasonableness) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
1.2	<ul style="list-style-type: none"> <li>Estimate or determine the area and volume of solid figures by covering them with squares or by counting the number of cubes that would fill them.</li> </ul>	Appetizers 4 F; Main Dish Objective 4 (Measurement) Lesson 6; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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1.3	• Find the perimeter of a polygon with integer sides.	Appetizers 4 F; Main Dish Objective 4 (Measurement) Lesson 6; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
1.4	• Carry out simple unit conversions within a system of measurement (e.g., centimeters and meters, hours and minutes).	Appetizers 4 A & B; Main Dish Objective 4 (Measurement) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
2.0	<b>Students describe and compare the attributes of plane and solid geometric figures and use their understanding to show relationships and solve problems:</b>			
2.1	• Identify, describe, and classify polygons (including pentagons, hexagons, and octagons).	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
2.2	• Identify attributes of triangles (e.g., two equal sides for the isosceles triangle, three equal sides for the equilateral triangle, right angle for the right triangle).			
2.3	• Identify attributes of quadrilaterals (e.g., parallel sides for the parallelogram, right angles for the rectangle, equal sides and right angles for the square).	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.4	• Identify right angles in geometric figures or in appropriate objects and determine whether other angles are greater or less than a right angle.			
2.5	• Identify, describe, and classify common three-dimensional geometric objects (e.g., cube, rectangular solid, sphere, prism, pyramid, cone, cylinder).	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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2.6	<ul style="list-style-type: none"> <li>Identify common solid objects that are the components needed to make a more complex solid object.</li> </ul>	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b><i>Statistics, Data Analysis, and Probability</i></b>				
1.0	<b>Students conduct simple probability experiments by determining the number of possible outcomes and make simple predictions:</b>			
1.1	<ul style="list-style-type: none"> <li>Identify whether common events are certain, likely, unlikely, or improbable.</li> </ul>	Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Extension Lesson; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
1.2	<ul style="list-style-type: none"> <li>Record the possible outcomes for a simple event (e.g., tossing a coin) and systematically keep track of the outcomes when the event is repeated many times.</li> </ul>	Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Extension Lesson; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
1.3	<ul style="list-style-type: none"> <li>Summarize and display the results of probability experiments in a clear and organized way (e.g., use a bar graph or a line plot).</li> </ul>	Appetizers 5 A & B; 12 C; Main Dish Objectives 5 (Probability/Statistics) Lessons 1 & Extension Lesson; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
1.4	<ul style="list-style-type: none"> <li>Use the results of probability experiments to predict future events (e.g., use a line plot to predict the temperature forecast for the next day).</li> </ul>	Appetizers 5 A; Main Dish Objective 5 (Probability/Statistics) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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<b>Mathematical Reasoning</b>				
<b>1.0</b>	<b>Students make decisions about how to approach problems:</b>			
1.1	<ul style="list-style-type: none"> <li>Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, sequencing and prioritizing information, and observing patterns.</li> </ul>	Appetizers 11 A, B, & C; 12 A, B, & C; Main Dish Objectives 11 (Problem Solving) Lessons 1, 2, & 3; 12 (Mathematical Representation) Lessons 1, 2, & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
1.2	<ul style="list-style-type: none"> <li>Determine when and how to break a problem into simpler parts.</li> </ul>	Appetizers 11 A, B, & C; Main Dish Objective 11 (Problem Solving) Lessons 1, 2, & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>2.0</b>	<b>Students use strategies, skills, and concepts in finding solutions:</b>			
2.1	<ul style="list-style-type: none"> <li>Use estimation to verify the reasonableness of calculated results.</li> </ul>	Appetizers 10; 13; Main Dish Objectives 10 (Estimation); 13 (Reasonableness); Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
2.2	<ul style="list-style-type: none"> <li>Apply strategies and results from simpler problems to more complex problems.</li> </ul>	Appetizers 11 A, B, C, & D; 12 A, B, & C; Main Dish Objectives 11 (Problem Solving) Lessons 1, 2, 3, & 4; 12 (Mathematical Representation) Lessons 1, 2, & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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2.3	<ul style="list-style-type: none"> <li>Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.</li> </ul>	Appetizers 1 A & E; 5 A; 11 A; 12 A, B, & C; 13 B & D; Main Dish Objectives 1 (Number Concepts) Lessons 1 & 5; 5 (Probability/Statistics) Lesson 1; 11 (Problem Solving) Lesson 1; 12 (Mathematical Representation) Lessons 1, 2, & 3; 13 (Reasonableness) Lessons 2 & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
2.4	<ul style="list-style-type: none"> <li>Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work.</li> </ul>	Appetizers and Appetizers II; Journal Topics in All Objectives		
2.5	<ul style="list-style-type: none"> <li>Indicate the relative advantages of exact and approximate solutions to problems and give answers to a specified degree of accuracy.</li> </ul>	Appetizers 10 A; 13 A, B, & C; Main Dish Objectives 10 (Estimation) Lesson 1; 13 (Reasonableness) Lessons 1, 2, & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
2.6	<ul style="list-style-type: none"> <li>Make precise calculations and check the validity of the results from the context of the problem.</li> </ul>	Appetizers and Appetizers II; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
3.0	<b>Students move beyond a particular problem by generalizing to other situations:</b>			
3.1	<ul style="list-style-type: none"> <li>Evaluate the reasonableness of the solution in the context of the original situation.</li> </ul>	Appetizers 13; Main Dish Objective 13 (Reasonableness) All Lessons; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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3.2	<ul style="list-style-type: none"> <li>Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.</li> </ul>	Appetizers 11; 12; Main Dish Objectives 11 (Problem Solving); 12 (Mathematical Representation) All Lessons; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
3.3	<ul style="list-style-type: none"> <li>Develop generalizations of the results obtained and apply them in other circumstances.</li> </ul>	Appetizers 11; 12; Main Dish Objectives 11 (Problem Solving); 12 (Mathematical Representation) All Lessons; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		