

**California**  
**Curricular Standards**  
**Mathematics - Grade 2**  
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<b>Benchmark Number</b>	<b>Benchmark</b> • <b>Teaching Targets</b>	<b>Gourmet Resource</b>	<b>Taught</b>	<b>Tested</b>
	By the end of grade two, students understand place value and number relationships in addition and subtraction, and they use simple concepts of multiplication. They measure quantities with appropriate units. They classify shapes and see relationships among them by paying attention to their geometric attributes. They collect and analyze data and verify the answers.			
	<b>Number Sense</b>			
<b>1.0</b>	<b>Students understand the relationship between numbers, quantities, and place value in whole numbers up to 1,000:</b>			
<b>1.1</b>	• <i>Count, read, and write whole numbers to 1,000 and identify the place value for each digit.</i>	<b>Appetizers 1 A &amp; B; Main Dish Objective 1 (Number Concepts) Lessons 1 &amp; 2; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>1.2</b>	• <i>Use words, models, and expanded forms (e.g., <math>45 = 4 \text{ tens} + 5</math>) to represent numbers (to 1,000).</i>	<b>Appetizers 1 B; Main Dish Objective 1 (Number Concepts) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>1.3</b>	• <i>Order and compare whole numbers to 1,000 by using the symbols <math>&lt;</math>, <math>=</math>, <math>&gt;</math>.</i>	<b>Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		

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<b>2.0</b>	<b>Students estimate, calculate, and solve problems involving addition and subtraction of two-and three-digit numbers:</b>			
<b>2.1</b>	<ul style="list-style-type: none"> <li>Understand and use the inverse relationship between addition and subtraction (e.g., an opposite number sentence for <math>8 + 6 = 14</math> is <math>14 - 6 = 8</math>) to solve problems and check solutions.</li> </ul>	Appetizers 2 A & B; Main Dish Objective 2 (Mathematical Relations) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>2.2</b>	<ul style="list-style-type: none"> <li>Find the sum or difference of two whole numbers up to three digits long.</li> </ul>	Appetizers 6 A & B; 11 B; Main Dish Objectives 6 (Addition) Lessons 1 & 2; 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>2.3</b>	<ul style="list-style-type: none"> <li>Use mental arithmetic to find the sum or difference of two two-digit numbers.</li> </ul>	Appetizers 2 D; Main Dish Objective 2 (Mathematical Relations) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>3.0</b>	<b>Students model and solve simple problems involving multiplication and division:</b>			
<b>3.1</b>	<ul style="list-style-type: none"> <li>Use repeated addition, arrays, and counting by multiples to do multiplication.</li> </ul>	Appetizers 8 A; 11 B; Main Dish Objectives 8 (Multiplication) Lesson 1; 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>3.2</b>	<ul style="list-style-type: none"> <li>Use repeated subtraction, equal sharing, and forming equal groups with remainders to do division.</li> </ul>	Appetizers 9 A; 11 B; Main Dish Objectives 9 (Division) Lesson 1; 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>3.3</b>	<ul style="list-style-type: none"> <li>Know the multiplication tables of 2s, 5s, and 10s (to "times 10") and commit them to memory.</li> </ul>	Appetizers 8 A; 11 B; Main Dish Objectives 8 (Multiplication) Lesson 1; 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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4.0	<b>Students understand that fractions and decimals may refer to parts of a set and parts of a whole:</b>			
4.1	<ul style="list-style-type: none"> <li>Recognize, name, and compare unit fractions from <math>\frac{1}{12}</math> to <math>\frac{1}{2}</math>.</li> </ul>	Appetizers 1 E; Main Dish Objective 1 (Number Concepts) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics		
4.2	<ul style="list-style-type: none"> <li>Recognize fractions of a whole and parts of a group (e.g., one-fourth of a pie, two-thirds of 15 balls).</li> </ul>	Appetizers 1 D & E; Main Dish Objective 1 (Number Concepts) Lessons 4 & 5; Applications; Final Tests; Reasonableness Problems; Journal Topics		
4.3	<ul style="list-style-type: none"> <li>Know that when all fractional parts are included, such as four-fourths, the result is equal to the whole and to one.</li> </ul>	Appetizers 1 D & E; Main Dish Objective 1 (Number Concepts) Lessons 4 & 5; Applications; Final Tests; Reasonableness Problems; Journal Topics		
5.0	<b>Students model and solve problems by representing, adding, and subtracting amounts of money:</b>			
5.1	<ul style="list-style-type: none"> <li>Solve problems using combinations of coins and bills.</li> </ul>	Appetizers 6 C; 7 C; Main Dish Objectives 6 (Addition) Lesson 3; 7 (Subtraction) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
5.2	<ul style="list-style-type: none"> <li>Know and use the decimal notation and the dollar and cent symbols for money.</li> </ul>	Appetizers 6 C; 7 C; Main Dish Objectives 6 (Addition) Lesson 3; 7 (Subtraction) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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6.0	<b>Students use estimation strategies in computation and problem solving that involve numbers that use the ones, tens, hundreds, and thousands places:</b>			
6.1	<ul style="list-style-type: none"> <li>Recognize when an estimate is reasonable in measurements (e.g., closest inch).</li> </ul>	Appetizers 4 A; 10 A; Main Dish Objectives 4 (Measurement) Lesson 1; 10 (Estimation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<i>Algebra and Functions</i>				
1.0	<b>Students model, represent, and interpret number relationships to create and solve problems involving addition and subtraction:</b>			
1.1	<ul style="list-style-type: none"> <li>Use the commutative and associative rules to simplify mental calculations and to check results.</li> </ul>	Appetizers 2 D; Main Dish Objective 2 (Mathematical Relations) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
1.2	<ul style="list-style-type: none"> <li>Relate problem situations to number sentences involving addition and subtraction.</li> </ul>	Appetizers 11 A & B; Main Dish Objective 11 (Problem Solving) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
1.3	<ul style="list-style-type: none"> <li>Solve addition and subtraction problems by using data from simple charts, picture graphs, and number sentences.</li> </ul>	Appetizers 5 B; 12 A, B, & C; Main Dish Objectives 5 (Probability/Statistics) Lesson 2; 12 (Mathematical Representation) Lessons 1, 2, & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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<b>Measurement and Geometry</b>				
<b>1.0</b>	<b>Students understand that measurement is accomplished by identifying a unit of measure, iterating (repeating) that unit, and comparing it to the item to be measured:</b>			
<b>1.1</b>	<ul style="list-style-type: none"> <li>• <i>Measure the length of objects by iterating (repeating) a nonstandard or standard unit.</i></li> </ul>	Appetizers 4 A & B; Main Dish Objective 4 (Measurement) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>1.2</b>	<ul style="list-style-type: none"> <li>• <i>Use different units to measure the same object and predict whether the measure will be greater or smaller when a different unit is used.</i></li> </ul>	Appetizers 4 A & B; Main Dish Objective 4 (Measurement) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>1.3</b>	<ul style="list-style-type: none"> <li>• <i>Measure the length of an object to the nearest inch and/ or centimeter.</i></li> </ul>	Appetizers 4 A & B; Main Dish Objective 4 (Measurement) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>1.4</b>	<ul style="list-style-type: none"> <li>• <i>Tell time to the nearest quarter hour and know relationships of time (e.g., minutes in an hour, days in a month, weeks in a year).</i></li> </ul>	Appetizers 4 C; Main Dish Objective 4 (Measurement) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>1.5</b>	<ul style="list-style-type: none"> <li>• <i>Determine the duration of intervals of time in hours (e.g., 11:00 a.m. to 4:00 p.m.).</i></li> </ul>	Appetizers 4 C; Main Dish Objective 4 (Measurement) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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<b>2.0</b>	<b>Students identify and describe the attributes of common figures in the plane and of common objects in space:</b>			
<b>2.1</b>	<ul style="list-style-type: none"> <li>Describe and classify plane and solid geometric shapes (e.g., circle, triangle, square, rectangle, sphere, pyramid, cube, rectangular prism) according to the number and shape of faces, edges, and vertices.</li> </ul>	Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>2.2</b>	<ul style="list-style-type: none"> <li>Put shapes together and take them apart to form other shapes (e.g., two congruent right triangles can be arranged to form a rectangle).</li> </ul>	Appetizers 3 C; Main Dish Objective 3 (Geometry) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>Statistics, Data Analysis, and Probability</b>				
<b>1.0</b>	<b>Students collect numerical data and record, organize, display, and interpret the data on bar graphs and other representations:</b>			
<b>1.1</b>	<ul style="list-style-type: none"> <li>Record numerical data in systematic ways, keeping track of what has been counted.</li> </ul>	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>1.2</b>	<ul style="list-style-type: none"> <li>Represent the same data set in more than one way (e.g., bar graphs and charts with tallies).</li> </ul>	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>1.3</b>	<ul style="list-style-type: none"> <li>Identify features of data sets (range and mode).</li> </ul>			
<b>1.4</b>	<ul style="list-style-type: none"> <li>Ask and answer simple questions related to data representations.</li> </ul>	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>2.0</b>	<b>Students demonstrate an understanding of patterns and how patterns grow and describe them in general ways:</b>			
<b>2.1</b>	<ul style="list-style-type: none"> <li>Recognize, describe, and extend patterns and determine a next term in linear patterns (e.g., 4, 8, 12 ...; the number of ears on one horse, two horses, three horses, four horses).</li> </ul>	<b>Appetizers 1 F &amp; G; 2 E; Main Dish Objectives 1 (Number Concepts) Lessons 6 &amp; 7; 2 (Mathematical Relations) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>2.2</b>	<ul style="list-style-type: none"> <li>Solve problems involving simple number patterns.</li> </ul>	<b>Appetizers 2 A, B, C, E, F, &amp; G; Main Dish Objective 2 (Mathematical Relations) Lessons 1, 2, 3, 5, 6, &amp; 7; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>Mathematical Reasoning</b>				
<b>1.0</b>	<b>Students make decisions about how to set up a problem:</b>			
<b>1.1</b>	<ul style="list-style-type: none"> <li>Determine the approach, materials, and strategies to be used.</li> </ul>	<b>Appetizers 11 A; Main Dish Objective 11 (Problem Solving) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>1.2</b>	<ul style="list-style-type: none"> <li>Use tools, such as manipulatives or sketches, to model problems.</li> </ul>	<b>Appetizers 12 B; Main Dish Objective 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		

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<b>2.0</b>	<b>Students solve problems and justify their reasoning:</b>			
<b>2.1</b>	<ul style="list-style-type: none"> <li>• <i>Defend the reasoning used and justify the procedures selected.</i></li> </ul>	<b>Appetizers 13 A; Main Dish Objective 13 (Reasonableness) Lesson 1; Interactive activity to encourage students to defend or justify answers; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>2.2</b>	<ul style="list-style-type: none"> <li>• <i>Make precise calculations and check the validity of the results in the context of the problem.</i></li> </ul>	<b>Appetizers; Interactive activity to encourage students to defend or justify answers; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>3.0</b>	<b>Students note connections between one problem and another.</b>			