

*Arizona*  
**Academic Standards & Accountability (AIMS)**  
**Mathematics - Grade 3**  
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<b>Benchmark Number</b>	<b>Benchmark</b> • <b>Instructional Targets</b>	<b>Gourmet Resource</b>	<b>Taught</b>	<b>Tested</b>
	<b>Number Sense</b> Students develop number sense and use numbers and number relationships to acquire basic facts, to solve a wide variety of real-world problems, and to determine the reasonableness of results.			
<b>1M-F1</b>	• <i>Represent and use numbers in equivalent forms through the use of physical models, drawings, word names and symbols (e.g., using concrete materials and fraction equivalents to represent and compare halves, thirds, fourths, eighths, and tenths).</i>			
<b>PO 1</b>	• <i>Make a model to represent a given whole number.</i>	<b>Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>PO 2</b>	• <i>Identify a whole number represented by a model with a word name and symbol.</i>	<b>Appetizers 1 A &amp; E; Main Dish Objective 1 (Number Concepts) Lessons 1 &amp; 5; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>PO 3</b>	• <i>Construct equivalent forms of whole numbers (e.g., <math>15 + 5 = 10 + 10</math>).</i>	<b>Appetizers 2 A; Main Dish Objective 1 (Number Concepts) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>PO 4</b>	• <i>Make a model to represent a given fraction (e.g., geometric model-shading a picture, set model-part of an egg carton) (halves, thirds, and fourths).</i>	<b>Appetizers 1 D; Main Dish Objective 1 (Number Concepts) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom</b>		

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PO 5	<ul style="list-style-type: none"> <li>Identify the fraction represented by a model with a word name and symbol (halves, thirds, and fourths).</li> </ul>	Appetizers 1 D; Main Dish Objective 1 (Number Concepts) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 6	<ul style="list-style-type: none"> <li>Identify a given model that is divided into equal fractional parts (halves, thirds, and fourths).</li> </ul>	Appetizers 1 D; Main Dish Objective 1 (Number Concepts) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
1M-F2	<ul style="list-style-type: none"> <li>Relate counting, grouping, and place-value concepts to whole numbers (e.g., reading and writing the number represented when objects are grouped by thousands, hundreds, tens, and ones).</li> </ul>			
PO 1	<ul style="list-style-type: none"> <li>Read whole numbers up to one thousand.</li> </ul>	Appetizers 1 E; Main Dish Objective 1 (Number Concepts) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 2	<ul style="list-style-type: none"> <li>Write whole numbers up to one thousand.</li> </ul>	Appetizers 1 E; Main Dish Objective 1 (Number Concepts) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 3	<ul style="list-style-type: none"> <li>Order whole numbers (e.g., smallest to largest, largest to smallest) up to one thousand.</li> </ul>	Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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PO 4	<ul style="list-style-type: none"> <li>Construct a model to represent place value concepts.</li> </ul>	Appetizers 1 B; Main Dish Objective 1 (Number Concepts) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
PO 5	<ul style="list-style-type: none"> <li>Write whole numbers in expanded notation (e.g., <math>531 = 500 + 30 + 1</math>).</li> </ul>	Appetizers 1 B; Main Dish Objective 1 (Number Concepts) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
PO 6	<ul style="list-style-type: none"> <li>Read aloud a whole number with correct place value words (e.g., a student will read <math>\underline{5} \underline{2} \underline{1}</math> as "five hundred twenty-one").</li> </ul>	Appetizers 1 B & E; Main Dish Objective 1 (Number Concepts) Lessons 2 & 5; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 7	<ul style="list-style-type: none"> <li>Count money to \$5.00 using bills and coins.</li> </ul>	Appetizers 1 F; Main Dish Objective 1 (Number Concepts) Lesson 6; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
1M-F3	<ul style="list-style-type: none"> <li>Understand the meaning for an application of the operations of addition, subtraction, multiplication, and division.</li> </ul>			
PO 1	<ul style="list-style-type: none"> <li>Demonstrate with models to show the process used in addition (joins things together, increases).</li> </ul>	Appetizers 6 A; 11 A; Main Dish Objectives 6 (Addition) Lesson 1; 11 (Problem Solving) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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<b>PO 2</b>	<ul style="list-style-type: none"> <li>• <i>Demonstrate with models to show the process used in subtraction (takes away, compares, finds the difference, decreases).</i></li> </ul>	Appetizers 7 A; 11 A; Main Dish Objectives 7 (Subtraction) Lesson 1; 11 (Problem Solving) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>PO 3</b>	<ul style="list-style-type: none"> <li>• <i>Demonstrate with models to show the process used in multiplication (uses repeated addition, counts by multiples, combines things that come in groups of equal size, makes arrays, uses area models).</i></li> </ul>	Appetizers 8 A & B; Main Dish Objective 8 (Multiplication) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
<b>PO 4</b>	<ul style="list-style-type: none"> <li>• <i>Demonstrate with models to show the process used in division (puts things into groups of equal size, shares equally, uses repeated subtraction).</i></li> </ul>	Appetizers 9 A; Main Dish Objective 9 (Division) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
<b>PO 5</b>	<ul style="list-style-type: none"> <li>• <i>Demonstrate with models the operations of addition and subtraction up to two three-digit whole numbers.</i></li> </ul>	Appetizers 6 A, B, & C; 7 A; Main Dish Objectives 6 (Addition) Lessons 1, 2, & 3; 7 (Subtraction) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
<b>PO 6</b>	<ul style="list-style-type: none"> <li>• <i>Select appropriate operations to solve word problems.</i></li> </ul>	Appetizers 11 A; 12 A; Main Dish Objectives 11 (Problem Solving) Lesson 1; 12 (Mathematical Representation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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PO 7	<ul style="list-style-type: none"> <li>Solve word problems using the appropriate operations.</li> </ul>	Appetizers 11 A, B, C, & D; 12 A, B, & D; Main Dish Objectives 11 (Problem Solving) Lessons 1, 2, 3, & 4; 12 (Mathematical Representation) Lessons 1, 2, & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 8	<ul style="list-style-type: none"> <li>Apply mathematical operations in everyday situations.</li> </ul>	Appetizers 11 A, B, C, & D; 12 A, B, C, & D; Main Dish Objectives 11 (Problem Solving) Lessons 1, 2, 3, 4; 12 (Mathematical Representation) Lessons 1, 2, 3, & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
1M-F4	<ul style="list-style-type: none"> <li>Demonstrate proficiency with the operations of addition and subtraction of whole numbers.</li> </ul>			
PO 1	<ul style="list-style-type: none"> <li>Demonstrate proficiency with basic facts up to 20.</li> </ul>	Appetizers 6 A; 7 A; Main Dish Objectives 6 (Addition) Lesson 1; 7 (Subtraction) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 2	<ul style="list-style-type: none"> <li>Add and subtract two three-digit whole numbers.</li> </ul>	Appetizers 6 B & C; 7 A & B; Main Dish Objectives 6 (Addition) Lessons 2 & 3; 7 (Subtraction) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 3	<ul style="list-style-type: none"> <li>Solve problems using a variety of mental computations and estimation.</li> </ul>	Appetizers 10 B, C, & D; Main Dish Objective 10 (Estimation) Lessons 2, 3, & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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1M-F5	• <i>Demonstrate proficiency with the operations of multiplication and division of single-digit numbers.</i>			
PO 1	• <i>Demonstrate proficiency with basic facts up to the fives.</i>	Appetizers 8 A; Main Dish Objective 8 (Multiplication) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 2	• <i>Solve problems using a variety of mental computations and estimation.</i>	Appetizers 8 A & B; Main Dish Objective 8 (Multiplication) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
1M-F6	• <i>Add and subtract commonly used fractions and decimals.</i>			
PO 1	• <i>Demonstrate with models addition and subtraction of fractions with common denominators (halves, thirds, and fourths).</i>			
PO 2	• <i>Add and subtract money up to \$5.00.</i>	Appetizers 1 F; Main Dish Objective 1 (Number Concepts) Lesson 6; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
1M-F7	• <i>Select and use appropriate techniques to facilitate computation (e.g., mental, estimation, paper-and-pencil, calculator and computer methods) while solving problems and determining the reasonableness of results.</i>			
PO 1	• <i>Select a computational technique to solve a problem.</i>	Appetizers 12 A & B; 13 B Main Dish Objective 12 (Mathematical Representation) Lessons 1 & 2; Objective 13 (Reasonableness) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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PO 2	<ul style="list-style-type: none"> <li>Solve a problem using the appropriate computational techniques.</li> </ul>	Appetizers 11 A, B, C, & D; 12 A & B; 13 B; Main Dish Objectives 11 (Problem Solving) Lessons 1, 2, 3, & 4; 12 (Mathematical Representation) Lessons 1 & 2; Objective 13 (Reasonableness) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 3	<ul style="list-style-type: none"> <li>Evaluate the reasonableness of results using a variety of mental computation and estimation techniques (e.g., compatible numbers, front-end, chunking).</li> </ul>	Appetizers 10 A, B, C, & D; Main Dish Objective 10 (Estimation) Lessons 1, 2, 3, & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 4	<ul style="list-style-type: none"> <li>Use technology (e.g., calculators, computers, multimedia) to solve problem containing larger numbers.</li> </ul>	Doggie Bags CD-Rom		
<p><b>Data Analysis and Probability</b></p> <p>Students use data collection and analysis, statistics, and probability to make valid inferences, decisions, and arguments and to solve a variety of real-world problems.</p>				
2M-F1	<ul style="list-style-type: none"> <li>Collect and analyze data using the concepts of largest, smallest, most often, least often, and middle.</li> </ul>			
PO 1	<ul style="list-style-type: none"> <li>Collect and record data from surveys (e.g., favorite color of food, height, ages) or experiments.</li> </ul>	Appetizers 5 A; 12 C; Main Dish Objective 5 (Probability/Statistics) Lesson 1; Objective 12 (Mathematical Relations); Lesson 3; Final Tests; Reasonableness Problems; Journal Topics		
PO 2	<ul style="list-style-type: none"> <li>Organize (e.g., sorting, sequencing, tallying) information from surveys or experiments.</li> </ul>	Appetizers 5 A; 12 C; Main Dish Objective 5 (Probability/Statistics) Lesson 1; Objective 12 (Mathematical Relations); Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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PO 3	<ul style="list-style-type: none"> <li>Identify largest, smallest, most often recorded (i.e., mode), least often and middle (i.e., median) using sorted data.</li> </ul>	Appetizers 5 A & B; Main Dish Objective 5 (Probability/Statistics) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
PO 4	<ul style="list-style-type: none"> <li>Formulate questions from organized data.</li> </ul>	Appetizers 5 A; 12 C; Main Dish Objective 5 (Probability/Statistics) Lesson 1; Objective 12 (Mathematical Relations); Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2M-F2	<ul style="list-style-type: none"> <li>Construct, read, and interpret displays of data to make valid decisions, inferences, and predictions.</li> </ul>			
PO 1	<ul style="list-style-type: none"> <li>Make and label a graph (horizontal bar, vertical bar, picture graph, or tally chart) from organized data.</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		
PO 2	<ul style="list-style-type: none"> <li>Answer questions about a circle graph (i.e., pie graph) divided into halves and fourths.</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		
PO 3	<ul style="list-style-type: none"> <li>Answer questions about a pictograph where each symbol represents multiple units.</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		

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PO 4	<ul style="list-style-type: none"> <li>Write a title representing the main idea of a graph.</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		
PO 5	<ul style="list-style-type: none"> <li>Locate points on a line graph (grid) using ordered pairs.</li> </ul>			
PO 6	<ul style="list-style-type: none"> <li>Draw conclusions (e.g., valid decisions, conjectures, and predictions) from graphed data.</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		
PO 7	<ul style="list-style-type: none"> <li>Formulate questions from graphs, charts, and tables.</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		
PO 8	<ul style="list-style-type: none"> <li>Solve problems using graphs, charts, and tables (e.g., given a bar graph of preferred flavors of ice cream, students have to decide what flavors of ice cream to order).</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		
2M-F3	<ul style="list-style-type: none"> <li>Predict and measure the likelihood of events and recognize that the results of an experiment may not match predicted outcomes.</li> </ul>			
PO 1	<ul style="list-style-type: none"> <li>Collect and record data from a probability experiment.</li> </ul>	Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Extension Activity; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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PO 2	<ul style="list-style-type: none"> <li>Organize (e.g., sorting, sequencing, tallying) data from a probability experiment.</li> </ul>	Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Extension Activity; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 3	<ul style="list-style-type: none"> <li>Name the possible outcomes of the probability experiment.</li> </ul>	Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Extension Activity; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 4	<ul style="list-style-type: none"> <li>Predict the most likely or least likely outcome in probability experiments.</li> </ul>	Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Lesson 2 Extension Activity; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 5	<ul style="list-style-type: none"> <li>Compare the outcome of the experiment to the predictions.</li> </ul>	Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Extension Activity; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
2M-F4	<ul style="list-style-type: none"> <li>Understand the concept of sample (i.e., that a larger sample of observed outcomes leads to more reliable information).</li> </ul>			
PO 1	<ul style="list-style-type: none"> <li>Compare data from a probability experiment where the experiments are performed a different number of times with the given expected outcomes (e.g., toss a two-colored counter 10 times and record the data; toss the counter 20 times and record the data; compare the results to the expected outcome [1 out of 2]).</li> </ul>	Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Extension Activity; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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	<p><b>Patterns, Algebra, and Functions</b></p> <p>Students use algebraic methods to explore, model, and describe patterns, relationships, and functions involving numbers, shapes, data, and graphs within a variety of real-world and problem-solving situations.</p>			
<b>3M-F1</b>	<ul style="list-style-type: none"> <li>• <i>Create, describe, and extend a variety of patterns using shapes, events, designs, and numbers.</i></li> </ul>			
<b>PO 1</b>	<ul style="list-style-type: none"> <li>• <i>Create a pattern using a model (e.g., symbolically: number or letters; visually: shapes, designs, numbers, or pictures; auditorially: clapping, singing, or listening; and kinesthetically: dancing, movement, or tactile).</i></li> </ul>	<b>Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom</b>		
<b>PO 2</b>	<ul style="list-style-type: none"> <li>• <i>Communicate orally or in written form the repetition of objects in a pattern.</i></li> </ul>	<b>Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom</b>		
<b>PO 3</b>	<ul style="list-style-type: none"> <li>• <i>Communicate orally or in written form a given pattern occurring in a sequence of numbers (e.g., counting by 10's, 5's, 3's, 2's, odd, even, forward, and backward).</i></li> </ul>	<b>Appetizers 1 C; 2 B; Main Dish Objective 1 (Number Concepts) Lesson 3; Objective 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom</b>		
<b>PO 4</b>	<ul style="list-style-type: none"> <li>• <i>Extend patterns using a model.</i></li> </ul>	<b>Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom</b>		
<b>PO 5</b>	<ul style="list-style-type: none"> <li>• <i>Extend a given pattern occurring in a sequence of numbers.</i></li> </ul>	<b>Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom</b>		

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3M-F2	<ul style="list-style-type: none"> <li>Formulate generalizations about patterns (e.g., color, shape, size, direction, orientation) to make predictions.</li> </ul>			
PO 1	<ul style="list-style-type: none"> <li>Make predictions based on a given pattern.</li> </ul>	Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
3M-F3	<ul style="list-style-type: none"> <li>Represent and describe how changing the value of one variable results in a change in another.</li> </ul>			
PO 1	<ul style="list-style-type: none"> <li>Describe in a given situation how a change in one variable results in the change of another (e.g., if you have to share a batch of cookies with friends, the more friends you have, the fewer cookies you'll each get).</li> </ul>	Appetizers 9 B; Main Dish Objective 9 (Division) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
3M-F4	<ul style="list-style-type: none"> <li>Represent and describe mathematical relationships such as order, grouping, etc. (e.g., given a string of numbers, describe the pattern, define the relationships between the numbers, and determine the next number in line).</li> </ul>			
PO 1	<ul style="list-style-type: none"> <li>Identify the pattern in skip counting.</li> </ul>	Appetizers 1 C; Main Dish Objective 1 (Number Concepts) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 2	<ul style="list-style-type: none"> <li>Determine the next number in a skip counting pattern.</li> </ul>	Appetizers 1 C; Main Dish Objective 1 (Number Concepts) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
3M-F5	<ul style="list-style-type: none"> <li>Recognize the symbols of equality and inequality.</li> </ul>			
PO 1	<ul style="list-style-type: none"> <li>Use the symbols <math>&gt;</math>, <math>&lt;</math>, <math>=</math> to compare whole numbers.</li> </ul>	Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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3M-F6	<ul style="list-style-type: none"> <li>Find missing elements in number sentences.</li> </ul>			
PO 1	<ul style="list-style-type: none"> <li>Find the missing number in addition and subtraction number sentences.</li> </ul>	Appetizers 6 A; 7 A; 12 A; Main Dish Objectives 6 (Addition) Lesson 1; 7 (Subtraction) Lesson 1; 12 (Mathematical Representation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
	<p><b>Geometry</b> Students use geometric methods, properties, and relationships as a means to recognize, draw, describe, connect, and analyze shapes and representations in the physical world.</p>			
4M-F1	<ul style="list-style-type: none"> <li>Relate geometric concepts to number and measurement ideas (e.g., dividing a rectangle into parts to represent multiplication).</li> </ul>			
PO 1	<ul style="list-style-type: none"> <li>Identify two-dimensional shapes by name and attribute.</li> </ul>	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 2	<ul style="list-style-type: none"> <li>Draw two-dimensional shapes.</li> </ul>	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 3	<ul style="list-style-type: none"> <li>Identify three-dimensional figures by name and/or attribute.</li> </ul>	Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 4	<ul style="list-style-type: none"> <li>Compare attributes of two-dimensional shapes.</li> </ul>	Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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PO 5	<ul style="list-style-type: none"> <li>Compare attributes of three-dimensional figures.</li> </ul>	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 6	<ul style="list-style-type: none"> <li>Use a rectangular array to represent a multiplication fact (e.g., put 12 tiles in a rectangular array; make a 3 x 4, 6 x 2, and 12 x 1 array).</li> </ul>	Appetizers 8 A & B; Main Dish Objective 8 (Multiplication) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
4M-F2	<ul style="list-style-type: none"> <li>Predict how shapes can be changed by combining or dividing them.</li> </ul>			
PO 1	<ul style="list-style-type: none"> <li>Build geometric shapes with other common shapes (e.g., tangrams, pattern blocks, geoboards).</li> </ul>	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
<p><b>Measurement and Discrete Mathematics</b> Students make and use direct and indirect measurement, metric and U.S. customary, to describe and compare the real world and to prepare for the study of discrete functions, fractals, and chaos which have evolved out of the age of technology.</p>				
5M-F1	<ul style="list-style-type: none"> <li>Demonstrate that a single object has different attributes that can be measured in different ways (e.g., length, mass/weight, time, temperature, area, and volume).</li> </ul>			
PO 1	<ul style="list-style-type: none"> <li>Determine the characteristics (attributes) of an object that are measurable (e.g., length and weight are measurable; color and texture are not measurable).</li> </ul>	Appetizers 4 B & D; Main Dish Objective 4 (Measurement) Lessons 2 & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 2	<ul style="list-style-type: none"> <li>Identify the type of measure (e.g., weight, height, volume) for each attribute.</li> </ul>	Appetizers 4 B & D; Main Dish Objective 4 (Measurement) Lessons 2 & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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5M-F2	<ul style="list-style-type: none"> <li>Explain the concepts related to units of measure and demonstrate the process of measurement with non-standard (e.g., using paper clip lengths), U.S. customary and metric units.</li> </ul>			
PO 1	<ul style="list-style-type: none"> <li>Select the appropriate unit of measure for a given characteristic of an object length- inches, feet, and yards; centimeters and meters capacity/volume- cups, gallons, and liters mass/weight- ounces, pounds, grams, and kilograms</li> </ul>	Appetizers 4 B & D; Main Dish Objective 4 (Measurement) Lessons 2 & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 2	<ul style="list-style-type: none"> <li>Select the appropriate tool to measure the given characteristic of an object (e.g., ruler, thermometer, measuring cup, scale).</li> </ul>	Appetizers 4 B & D; Main Dish Objective 4 (Measurement) Lessons 2 & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 3	<ul style="list-style-type: none"> <li>Measure a given characteristic of an object using non-standard units of measure.</li> </ul>	Appetizers 4 B; Main Dish Objective 4 (Measurement) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 4	<ul style="list-style-type: none"> <li>Measure a given characteristic of an object using standard units of measure.</li> </ul>	Appetizers 4 B; Main Dish Objective 4 (Measurement) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 5	<ul style="list-style-type: none"> <li>Tell time to the nearest minute on digital and traditional (analog) clocks.</li> </ul>	Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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<b>PO 6</b>	<ul style="list-style-type: none"> <li>Determine the passage of time (i.e., units of days, months, and years) using a calendar.</li> </ul>	Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
<b>PO 7</b>	<ul style="list-style-type: none"> <li>Compare units of measure to determine more or less relationships. <ul style="list-style-type: none"> <li>length - inches and feet feet and yards centimeters and meters</li> <li>capacity - cups and gallons</li> <li>mass - ounces and pounds grams and kilograms</li> <li>time - minutes and hours hours and days days and weeks months and years</li> <li>money - pennies, nickels, dimes, quarters, and dollars</li> </ul> </li> </ul>	Appetizers 1 F; 4 A, B, & D; Main Dish Objectives 1 (Number Concepts) Lesson 6; 4 (Measurement) Lessons 1, 2, & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
<b>PO 8</b>	<ul style="list-style-type: none"> <li>Compare units of measure to determine equivalent relationships. <ul style="list-style-type: none"> <li>length - inches to feet</li> <li>time - minutes to hours days to weeks months to years</li> <li>money - pennies, nickels, dimes, quarters, and dollars</li> </ul> </li> </ul>	Appetizers 1 F; 4 A & B; Main Dish Objectives 1 (Number Concepts) Lesson 6; 4 (Measurement) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
<b>PO 9</b>	<ul style="list-style-type: none"> <li>Read a thermometer in Celsius and Fahrenheit to the nearest degree.</li> </ul>	Appetizers 4 C; Main Dish Objective 4 (Measurement) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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5M-F3	• <i>Make estimates of measurement.</i>			
PO 1	• <i>Estimate a measurement</i>	Appetizers 4; 10; Main Dish Objectives 4 (Measurement); 10 (Estimation); Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 2	• <i>Compare the estimation to actual measure.</i>	Appetizers 4 B; Main Dish Objective 4 (Measurement) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 3	• <i>Evaluate the reasonableness of the estimation.</i>	Appetizers 4; 10; 13 B; Main Dish Objectives 4 (Measurement); 10 (Estimation); 13 (Reasonableness) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
5M-F4	• <i>Use discrete mathematical models for graphs to represent everyday situation (e.g., determine how many ways to move from point A to point B on a grid).</i>			
PO 1	• <i>Make a diagram to represent the number of combinations between two sets (e.g., "How many outfits can one make with three different colors of shirts and two different pairs of pants?").</i>			
	<p><b>Mathematical Structure/Logic</b> Students use both inductive and deductive reasoning as they make conjectures and test the validity of arguments.</p>			
6M-F1	• <i>Recognize that numbers are used for different purposes in the world and a variety of mathematical notations represent these situations.</i>			

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PO 1	<ul style="list-style-type: none"> <li>Formulate mathematical problems from everyday situations.</li> </ul>	Appetizers 11 A, B, C, & D; 12 A & B; Main Dish Objectives 11 (Problem Solving) Lessons 1, 2, 3, & 4; 12 (Mathematical Representation) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
6M-F2	<ul style="list-style-type: none"> <li>Draw inductive and deductive conclusions about mathematics.</li> </ul>			
PO 1	<ul style="list-style-type: none"> <li>Extend a pattern using inductive reasoning (e.g., "What is the next number after 2, 4, 6, 8?").</li> </ul>	Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
PO 2	<ul style="list-style-type: none"> <li>Make a prediction based on existing information (e.g., "All the students in a 3rd grade class are under 10 years old. How old will the next new student probably be?").</li> </ul>	Appetizers 13 A; Main Dish Objective 13 (Reasonableness) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
6M-F3	<ul style="list-style-type: none"> <li>Distinguish between relevant and irrelevant information.</li> </ul>			
PO 1	<ul style="list-style-type: none"> <li>Select the information necessary to solve a given problem.</li> </ul>	Appetizers 12 A & B; Main Dish Objective 12 (Mathematical Representation) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
6M-F4	<ul style="list-style-type: none"> <li>Interpret statements made with precise language of logic (e.g., all, every, none, some, or many).</li> </ul>			
PO 1	<ul style="list-style-type: none"> <li>Use words such as all, every, none, some, and many to make reasonable conclusions about situations.</li> </ul>	Appetizers 13 A & B; Main Dish Objective 13 (Reasonableness) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		