

*Nevada*  
**Curricular Standards**  
**Mathematics - Grade 6**  
*Correlations with Gourmet Curriculum Press, Inc.®*  
 1.800.900.2290

<i>Benchmark Number</i>	<i>Benchmark • Instructional Target</i>	<i>Gourmet Resource</i>	<i>Taught</i>	<i>Tested</i>
<b>Numbers, Number Sense, and Computation</b>				
<b>1.0</b>	<b>To solve problems, communicate, reason, and make connections within and beyond the field of mathematics, students will accurately calculate and use estimation techniques, number relationships, operation rules, and algorithms; they will determine the reasonableness of answers and the accuracy of solutions.</b>			
<b>1.6.1</b>	<ul style="list-style-type: none"> <li><i>Read, write, add, subtract, multiply, and divide with decimals, fractions, and percents.</i></li> </ul>	<b>Appetizers 1 C &amp; D; 6 C &amp; D; 7 B &amp; C; 8 D; 9 E; 11 A;</b> <b>Main Dish Objectives 1 (Number Concepts) Lessons 3 &amp; 4; 6 (Addition) Lessons 3 &amp; 4; 7 (Subtraction) Lessons 2 &amp; 3; 8 (Multiplication) Lesson 4; 9 (Division) Lesson 5; 11 (Problem Solving) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>1.6.2</b>	<ul style="list-style-type: none"> <li><i>Apply decimals, fractions, and percents to solve mathematical and practical problems.</i></li> </ul>	<b>Appetizers 1 B, C, &amp; D; 6 C &amp; D; 7 B &amp; C; 8 D; 11 A;</b> <b>Main Dish Objectives 1 (Number Concepts) Lessons 2, 3, &amp; 4; 6 (Addition) Lessons 3 &amp; 4; 7 (Subtraction) Lessons 2 &amp; 3; 8 (Multiplication) Lesson 4; 11 (Problem Solving) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>1.6.3</b>	<ul style="list-style-type: none"> <li><i>Use concepts of number theory including prime and composite numbers, factors, multiples, and the rules of divisibility.</i></li> </ul>	<b>Appetizers 1 C &amp; D;</b> <b>Main Dish Objective 1 (Number Concepts) Lessons 3 &amp; 4; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		

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1.6.6	• Compare and order groups of fractions and groups of decimals (e.g., on a number line).	Appetizers 1 D; 2 F; Main Dish Objectives 1 (Number Concepts) Lesson 4; 2 (Mathematical Relations) Lesson 6; Applications; Final Tests; Reasonableness Problems; Journal Topics		
1.6.7	• Round to a given decimal place value; estimate using decimals, fractions, and percents.	Appetizers 1 B; 7 D; 10 B; Main Dish Objectives 1 (Number Concepts) Lesson 2; 7 (Subtraction) Lesson 4; 10 (Estimation) Lessons 2 & 8; Applications; Final Tests; Reasonableness Problems; Journal Topics		
1.6.9	• Use models and drawings to identify, compare, add, and subtract fractions with unlike denominators; use models to translate among fractions, decimals, and percents.	Appetizers 1 C & E; 6 C & D; 7 B & C; Main Dish Objectives 1 (Number Concepts) Lessons 3 & 5; 6 (Addition) Lessons 3 & 4; 7 (Subtraction) Lessons 2 & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>Patterns, Functions, and Algebra</b>				
2.0	<b>To solve problems, communicate, reason, and make connections within and beyond the field of mathematics, students will use the various algebraic methods to analyze, illustrate, extend, and create numerous representations (words, numbers, tables, and graphs) of patterns, functions, and algebraic relations as modeled in practical situations.</b>			
2.6.1	• Use and create tables and charts to extend a pattern in order to describe a rule.	Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2; Application; Final Test; Reasonableness Problems; Journal Topics		
2.6.2	• Identify, model, describe, and evaluate relationships using charts and tables, with and without technology.	Appetizers 2 B; 5 B; 12 B; Main Dish Objectives 2 (Mathematical Relations) Lesson 2; 5 (Probability/Statistics) Lesson 2; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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2.6.7	<ul style="list-style-type: none"> <li>Use a rule to create a table and represent the ordered pairs on a coordinate grid.</li> </ul>	Appetizers 2 E; Main Dish Objective 2 (Mathematical Relations) Lesson 5; Application; Final Test; Reasonableness Problems; Journal Topics		
	<b>Measurement</b>			
3.0	<b>To solve problems, communicate, reason and make connections within and beyond the field of mathematics, students will use appropriate tools and techniques of measurement to determine, estimate, record, and verify direct and indirect measurements.</b>			
3.6.1	<ul style="list-style-type: none"> <li>Compare and convert units of measure for length, weight, and capacity, within the same measurement system (customary or metric).</li> </ul>	Appetizers 4 A, B, & C; Main Dish Objective 4 (Measurement) Lessons 1, 2, & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
3.6.2	<ul style="list-style-type: none"> <li>Explain how the size of the unit used affects the precision; given two measurements of the same object, select the one that is more precise.</li> </ul>	Appetizers 4 A & B; Main Dish Objective 4 (Measurement) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
3.6.3	<ul style="list-style-type: none"> <li>Estimate, measure to the required degree of accuracy, derive, and apply formulas to find the perimeter, circumference, and area of plane figures.</li> </ul>	Appetizers 4 D & E; 11 B; Main Dish Objectives 4 (Measurement) Lessons 4 & 5; 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
3.6.5	<ul style="list-style-type: none"> <li>Use ratios to describe and compare relationships between various objects.</li> </ul>	Appetizers 1 E; 2 C; Main Dish Objectives 1 (Number Concepts) Lesson 5; 2 (Mathematical Relations) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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<b>Spatial Relationships and Geometry</b>				
<b>4.0</b>	<b>To solve problems, communicate, and make connections within and beyond the field of mathematics, students will identify, represent, verify, and apply spatial relationships and geometric properties.</b>			
4.6.1	<ul style="list-style-type: none"> <li>Measure angles; identify, describe by properties, classify, compare, and draw regular and irregular quadrilaterals; find the sum of the interior angles of triangles and quadrilaterals.</li> </ul>	Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4; Application; Final Test; Reasonableness Problems; Journal Topics		
4.6.2	<ul style="list-style-type: none"> <li>Determine actual measurements represented on scale drawings (e.g., maps, blueprints, houseplans).</li> </ul>			
4.6.3	<ul style="list-style-type: none"> <li>Using a coordinate grid, identify coordinates for a given point and locate points of a given coordinates; plot geometric shapes in all four quadrants.</li> </ul>	Appetizers 2 E; Main Dish Objective 2 (Mathematical Relations) Lesson 5; Application; Final Test; Reasonableness Problems; Journal Topics		
4.6.4	<ul style="list-style-type: none"> <li>Make model of a three-dimensional prism from a two-dimensional drawing and make a two-dimensional drawing of a three-dimensional prism.</li> </ul>	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		
4.6.5	<ul style="list-style-type: none"> <li>Models slope (pitch, angle of inclination) using concrete objects and practical examples.</li> </ul>			
4.6.6	<ul style="list-style-type: none"> <li>Draw complementary and supplementary angles; identify and find measures of complementary and supplementary angles using arithmetic and geometric methods.</li> </ul>	Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4; Application; Final Test; Reasonableness Problems; Journal Topics		
4.6.7	<ul style="list-style-type: none"> <li>Determine the measures of missing angles of triangles based on the Triangle Sum Theorem (the sum of the interior angles of a triangle equals 180 degrees).</li> </ul>	Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4; Application; Final Test; Reasonableness Problems; Journal Topics		

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4.6.8	<ul style="list-style-type: none"> <li>Construct circles, angles, and triangles based on given measurements using a variety of methods (e.g., protractor, paper folding).</li> </ul>	Appetizers 3 D; 4 D; Main Dish Objectives 3 (Geometry) Lesson 4; 4 (Measurement) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>Data Analysis</b>				
5.0	<b>To solve problems, communicate, reason, and make connections within and beyond the field of mathematics, students will collect, organize, display, interpret, and analyze data to determine statistical relationships and probability projections.</b>			
5.6.1	<ul style="list-style-type: none"> <li>Interpret data using various formats including circle graphs.</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		
5.6.2	<ul style="list-style-type: none"> <li>Conduct simple probability experiments using concrete materials and represent the results using decimals, percents, and ratios.</li> </ul>	Appetizers 5 A; 11 D; Main Dish Objectives 5 (Probability/Statistics) Lesson 1; 11 (Problem Solving) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
5.6.3	<ul style="list-style-type: none"> <li>Solve probability problems using a variety of methods including constructing sample spaces and tree diagrams.</li> </ul>	Appetizers 5 C; 12 C; Main Dish Objectives 5 (Probability/Statistics) Lesson 3; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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5.6.5	<ul style="list-style-type: none"> <li>Analyze the effect a change of format will have on interpretation of statistical charts and graphs.</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		
5.6.6	<ul style="list-style-type: none"> <li>Analyze data in a variety of formats to draw conclusions and make predictions.</li> </ul>	Appetizers 5 A & C; 12 C; Main Dish Objectives 5 (Probability/Statistics) Lessons 1 & 3; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>Problem Solving</b>				
6.0	<p><b>Students will develop their ability to solve problems by engaging in developmentally appropriate problem solving opportunities in which there is a need to use various approaches to investigate and understand mathematical concepts in order to: formulate their own problems; find solutions to problems from everyday situations; develop and apply strategies to solve a wide variety of problems; and integrate mathematical reasoning, communication and connections.</b></p>			
6.1	<ul style="list-style-type: none"> <li>Select, modify, develop, and apply strategies to solve a variety of mathematical and practical problems and to investigate and understand mathematical concepts.</li> </ul>	Appetizers 11 A & B; 12 A & B; 13 A & B; Main Dish Objectives 11 (Problem Solving) Lessons 1 & 2; 12 (Mathematical Representation) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
6.2	<ul style="list-style-type: none"> <li>Apply previous experience and knowledge to new problem-solving situations.</li> </ul>	All Appetizers; All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics		
6.5	<ul style="list-style-type: none"> <li>Verify, interpret, and evaluate results with respect to the original problem situation, determining an efficient strategy for the given situation.</li> </ul>	All Appetizers; All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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6.6	<ul style="list-style-type: none"> <li>Try more than one strategy when the first strategy proves to be unproductive.</li> </ul>	Appetizers 11 A; 12 A & B; 13 A & B; Main Dish Objectives 11 (Problem Solving) Lesson 1; 12 (Mathematical Representation) Lessons 1 & 2; 13 (Reasonableness) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
6.7	<ul style="list-style-type: none"> <li>Apply multi-step, integrated, mathematical problem-solving strategies, persisting until a solution is found or until it is clear that no solution exists.</li> </ul>	Appetizers 11 A; 12 B; 13 A & B; Main Dish Objectives 11 (Problem Solving) Lesson 1; 12 (Mathematical Representation) Lesson 2; 13 (Reasonableness) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
6.9	<ul style="list-style-type: none"> <li>Generalize solutions and strategies from earlier problems to new problem situations.</li> </ul>	Appetizers 11 A & B; 12 A & B; 13 A & B; Main Dish Objectives 11 (Problem Solving) Lessons 1 & 2; 12 (Mathematical Representation) Lessons 1 & 2; 13 (Reasonableness) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
6.10	<ul style="list-style-type: none"> <li>Interpret and solve a variety of mathematical problems by paraphrasing, identifying necessary and extraneous information, selecting and justifying efficient methods and/or strategies, and ensuring the answer is reasonable.</li> </ul>	All Appetizers require justification; Main Dish Objectives 11 (Problem Solving) Lesson 1; 12 (Mathematical Representation) Lesson 1; 13 (Reasonableness) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
6.13	<ul style="list-style-type: none"> <li>Use technology, including calculators, to solve problems and verify solutions.</li> </ul>			
6.14	<ul style="list-style-type: none"> <li>Use technology, including calculators, to investigate, define, and describe quantitative relationships such as patterns and functions.</li> </ul>			

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<b>Mathematical Communication</b>				
7.0	Students will develop their ability to communicate mathematically by solving problems in which there is a need to obtain information from the real world through reading, listening, and observing in order to: translate this information into a mathematical language and symbols; process this information mathematically; and present results in written, oral and visual formats.			
7.1	• <i>Discuss and exchange ideas about mathematics as a part of learning.</i>	All Appetizers; All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics		
7.2	• <i>Use inquiry techniques (e.g., discussion, questioning, research, data gathering) to solve mathematical problems.</i>	Interactive discussions throughout all Appetizers; Main Dish Objectives 5 (Probability/Statistics) Lesson 2; 12 (Mathematical Representation) Lessons 1 & 2; 13 (Reasonableness) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
7.3	• <i>Read expository text to learn about mathematics.</i>			
7.6	• <i>Interpret and solve word problems without the necessity of key words or phrases.</i>	Appetizers 12 A & B; 13 A & B; Main Dish Objectives 12 (Mathematical Representation) Lessons 1 & 2; 13 (Reasonableness) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
7.8	• <i>Use physical material, diagrams, and tables to represent and then communicate mathematical ideas through oral, verbal, and written formats.</i>	Appetizers 5 B & C; 11 D; 12 B; Main Dish Objectives 5 (Probability/Statistics) Lessons 2 & 3; 11 (Problem Solving) Lesson 4; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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7.10	• Evaluate the effectiveness of written and oral presentations of mathematics.	Interactive discussions throughout all Appetizers; Main Dish Objectives - Journal Topics		
7.11	• Make conjectures and present arguments in discussions of mathematical ideas.	Interactive discussions throughout all Appetizers; Main Dish Objectives - Journal Topics		
7.13	• Make conjectures and present arguments in discussions of mathematics.	Appetizers 5 A & C; 11 A; 12 A; 13 A & B; Main Dish Objectives 5 (Probability/Statistics) Lessons 1 & 3; 11 (Problem Solving) Lesson 1; 12 (Mathematical Representation) Lesson 1; 13 (Reasonableness) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
7.15	• Use everyday language to explain thinking about strategies and solutions to mathematical problems.	Interactive discussions throughout all Appetizers; Main Dish Objectives - Journal Topics		
7.16	• Express mathematical ideas and use them to define, compare, and solve problems orally and in writing.	Interactive discussions throughout all Appetizers; Main Dish Objectives - Journal Topics		
7.17	• Use mathematical notation to communicate and explain mathematical situations.	Interactive discussions throughout all Appetizers; Main Dish Objectives - Journal Topics		

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	<b>Mathematical Reasoning</b>			
8.0	<b>Students will develop their ability to reason mathematically by solving problems in which there is a need to investigate significant mathematical ideas and construct their own learning in all content areas in order to justify their thinking; reinforce and extend their logical reasoning abilities; reflect on and clarify their own thinking; and ask questions to extend their thinking.</b>			
8.2	<ul style="list-style-type: none"> <li><i>Justify answers and the steps taken to solve problems with and without manipulatives and physical models.</i></li> </ul>	<b>All Appetizers; All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
8.4	<ul style="list-style-type: none"> <li><i>Use patterns and relationships to analyze mathematical situations; draw logical conclusions about mathematical problems.</i></li> </ul>	<b>Appetizers 2 A, B, &amp; C; 12 A; Main Dish Objectives 2 (Mathematical Relations) Lessons 1, 2, &amp; 3 12 (Mathematical Representation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
8.5	<ul style="list-style-type: none"> <li><i>Follow a logical argument and judge its validity.</i></li> </ul>	<b>Appetizers 2 A; 5 A &amp; C; 12 B; 13 A; Main Dish Objectives 2 (Mathematical Relations) Lesson 1; 5 (Probability/Statistics) Lessons 1, &amp; 3; 12 (Mathematical Representation) Lesson 2; 13 (Reasonableness) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
8.7	<ul style="list-style-type: none"> <li><i>Recognize and apply deductive and inductive reasoning in both concrete and abstract contexts.</i></li> </ul>	<b>All Appetizers; All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		

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8.8	• <i>Ask questions to reflect on, clarify, and extend thinking.</i>	Interactive discussions throughout all Appetizers; Main Dish Objective 13 (Reasonableness); Applications; Final Tests; Reasonableness Problems; Journal Topics		
8.9	• <i>Review and refine the assumptions and steps used to derive conclusions in mathematical arguments.</i>	Interactive discussions throughout all Appetizers; Main Dish Objective 13 (Reasonableness); Applications; Final Tests; Reasonableness Problems; Journal Topics		
8.11	• <i>Determine relevant, irrelevant, and/or sufficient information to solve mathematical problems.</i>	Appetizers 11 A; 13 A & B; Main Dish Objectives 11 (Problem Solving) Lesson 1; 13 (Reasonableness) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>Mathematical Connections</b>				
9.0	<b>Students will develop their ability to make mathematical connections by solving problems in which there is a need to view mathematics as an integrated whole, identifying relationships between context standards strands, and integrating mathematics with other disciplines, allowing the flexibility to approach problems in a variety of ways within and beyond the field of mathematics.</b>			
9.1	• <i>Link new concepts to prior knowledge.</i>	All Appetizers; All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics		
9.2	• <i>Use mathematical ideas from one area of mathematics to explain an idea from another area of mathematics.</i>	All Main Dish Objectives - Journal Topics		

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9.3	<ul style="list-style-type: none"> <li>Use models to explain the relationship of concepts to procedures.</li> </ul>	Appetizers 2 A, B, & C; 3 A, B, & C; 4 D & E; 5 A & C; Main Dish Objectives 2 (Mathematical Relations) Lessons 1, 2, & 3; 3 (Geometry) Lessons 1, 2, & 3; 4 (Measurement) Lessons 4 & 5; 5 (Probability/Statistics) Lessons 1 & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
9.4	<ul style="list-style-type: none"> <li>Use the connections among mathematical topics to develop multiple approaches to problems.</li> </ul>	Interactive discussions throughout all Appetizers		
9.5	<ul style="list-style-type: none"> <li>Identify practical applications of mathematical principles that can be applied to other disciplines.</li> </ul>	Appetizers 2 A, B, & E; 10 A & E; 13 A & B: Main Dish Objectives 2 (Mathematical Relations) Lessons 1, 2, & 5; 10 (Estimation) Lessons 1 & 5; 13 (Reasonableness) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
9.7	<ul style="list-style-type: none"> <li>Apply mathematical thinking and modeling to solve problems that arise in other disciplines (e.g., rhythm in music and motion in science).</li> </ul>			
9.8	<ul style="list-style-type: none"> <li>Identify, explain, and use mathematics in everyday life.</li> </ul>	All Appetizers; Main Dish Objectives 3 (Geometry) Lessons 1 & 2; 4 (Measurement) Lessons 1, 2, 3, 4, & 6; 5 (Probability/Statistics) Lessons 1 & 4; 6 (Addition) All Lessons; 7 (Subtraction) All Lessons; 8 (Multiplication) All Lessons; 9 (Division) All Lessons; 10 (Estimation) Lessons 1 & 7; 11 (Problem Solving) Lessons 1, 2, 3, & 4; 13 (Reasonableness) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		