

Nevada
Curricular Standards
Mathematics - Grade 5
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>
Numbers, Number Sense, and Computation				
1.0	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.			
1.5.1	<ul style="list-style-type: none"> <i>Use and apply multiplication and corresponding division facts through 12s.</i> 	Appetizers 8 A; 9 A; 11 A; Main Dish Objectives 8 (Multiplication) Lesson 1; 9 (Division) Lesson 1; 11 (Problem Solving) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
1.5.2	<ul style="list-style-type: none"> <i>Generate and solve addition, subtraction, multiplication, and division problems using whole numbers in practical situations.</i> 	Appetizers 6 A; 7 A; 8 A; 9 A; 11 A; Main Dish Objectives 6 (Addition) Lesson 1; 7 (Subtraction) Lesson 1; 8 (Multiplication) Lesson 1; 9 (Division) Lesson 1; 11 (Problem Solving) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
1.5.3	<ul style="list-style-type: none"> <i>Use order of operations to solve problems.</i> 	Appetizers 2 A; Main Dish Objective 2 (Mathematical Relations) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		
1.5.4	<ul style="list-style-type: none"> <i>Add and subtract decimals; multiply and divide decimals by whole numbers in problems representing practical situations.</i> 	Appetizers 6 C; 7 B; 8 D; 11 A; Main Dish Objectives 6 (Addition) Lesson 3; 7 (Subtraction) Lesson 2; 8 (Multiplication) Lesson 4; 11 (Problem Solving) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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1.5.5	<ul style="list-style-type: none"> • <i>Multiply and divide multi-digit numbers by 2-digit numbers, including strategies for powers of 10.</i> 	Appetizers 8 A; 9 A; 11 A; Main Dish Objectives 8 (Multiplication) Lesson 1; 9 (Division) Lesson 1; 11 (Problem Solving) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
1.5.6	<ul style="list-style-type: none"> • <i>Compare and order negative numbers within the context of everyday happenings (e.g., temperature) and plot those numbers on a number line.</i> 	Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		
1.5.7	<ul style="list-style-type: none"> • <i>When rounding, identify which place value will be most helpful in estimating an answer and determine the reasonableness of the answer.</i> 	Appetizers 1 E; 10 B; Main Dish Objectives 1 (Number Concepts) Lesson 5; 10 (Estimation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
1.5.8	<ul style="list-style-type: none"> • <i>Use and identify place value.</i> 	Appetizers 1 A & B; Main Dish Objective 1 (Number Concepts) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
1.5.9	<ul style="list-style-type: none"> • <i>Use models and drawings to identify, compare, add, and subtract fractions with like denominators and to add and subtract decimals; use both to solve problems.</i> 	Appetizers 1 C & D; 6 E, F, & G; 7 C; Main Dish Objectives 1 (Number Concepts) Lessons 3 & 4; 6 (Addition) Lessons 5, 6, & 7; 7 (Subtraction) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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Patterns, Functions, and Algebra				
2.0	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.			
2.5.1	<ul style="list-style-type: none"> Identify, describe, and explain patterns and relationships in the number system (e.g., formed by triangular numbers, perfect squares, arithmetic and geometric sequences) using concrete materials, paper and pencil, and calculators. 			
2.5.3	<ul style="list-style-type: none"> Using whole numbers as a replacement set, find possible solutions to such inequalities as $8 + 4 > n$. 	Appetizers 2 A; Main Dish Objective 2 (Mathematical Relations) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		
2.5.4	<ul style="list-style-type: none"> Use variables in open sentences and to describe simple functions and relationships. 	Appetizers 2 A; 12 A; Main Dish Objectives 2 (Mathematical Relations) Lesson 1; 12 (Mathematical Representation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.5.5	<ul style="list-style-type: none"> Generate number sequences given the first term and any basic computations rule (e.g., given a 4 and the rule of add 6, 10, 16, 22, 28, ...). 	Appetizers 2 B & C; Main Dish Objective 2 (Mathematical Relations) Lessons 2 & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.5.7	<ul style="list-style-type: none"> Solve simple equations using a variety of methods (e.g., inverse operations, mental math, and estimate and verify). 	Appetizers 2 A & B; 12 A; Main Dish Objectives 2 (Mathematical Relations) Lessons 1 & 2; 12 (Mathematical Representation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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	Measurement			
3.0	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.			
3.5.3	<ul style="list-style-type: none"> Estimate measures of length, volume, capacity, quantity, and weight, communicating degree of accuracy needed and when a more precise measure is required. 	Appetizers 4 D & E; Main Dish Objective 4 (Measurement) Lessons 4 & 5; Applications; Final Tests; Reasonableness Problems; Journal Topics		
3.5.4	<ul style="list-style-type: none"> Determine totals and change due for monetary amounts in problem-solving situations. 	Appetizers 6 A; 7 B; 8 D; Main Dish Objectives 6 (Addition) Lesson 1; 7 (Subtraction) Lesson 2; 8 (Multiplication) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
3.5.5	<ul style="list-style-type: none"> Communicate the difference between perimeter and area. 	Appetizers 4 D, E, & F; 11 B; Main Dish Objectives 4 (Measurement) Lessons 4, 5, & 6; 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
3.5.6	<ul style="list-style-type: none"> Identify equivalent periods of time, including relationships between and among seconds, minutes, hours, days, months, and years (e.g., 60 seconds = 1 minute). 	Appetizers 4 A & B; Main Dish Objective 4 (Measurement) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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Spatial Relationships and Geometry				
4.0	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.			
4.5.1	<ul style="list-style-type: none"> • <i>Draw and classify angles and triangles according to their properties; (e.g., right, scalene, obtuse, and equilateral); identify and draw circles and parts of circles, describing the relationships between the various parts (e.g., central angle, arc, diameter).</i> 	Appetizers 4 F; Main Dish Objective 4 (Measurement) Lesson 6; Application; Final Test; Reasonableness Problems; Journal Topics		
4.5.2	<ul style="list-style-type: none"> • <i>Identify shapes that have congruence, similarity, and/or symmetry of figures using a variety of methods including transformational motions (e.g., translation/slide, rotation/turn, reflection/flip, enlargement/reduction) and models, drawings, and measurement tools.</i> 	Appetizers 3 D; 11 C; Main Dish Objectives 3 (Geometry) Lesson 4; 11 (Problem Solving) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
4.5.3	<ul style="list-style-type: none"> • <i>Using a grid, identify coordinates for a given point or locate points of given coordinates in the first quadrant.</i> 	Appetizers 2 D; Main Dish Objective 2 (Mathematical Relations) Lesson 4; Application; Final Test; Reasonableness Problems; Journal Topics		
4.5.4	<ul style="list-style-type: none"> • <i>Identify, describe, compare, and classify two- and three-dimensional figures by relevant properties including number of vertices (corners), edges, and shapes of faces; identify and predict the effects of combining, dividing, and changing shapes into other shapes.</i> 	Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
4.5.6	<ul style="list-style-type: none"> • <i>Identify, describe, define, and draw geometric figures including points, intersecting, perpendicular and parallel lines, line segments, rays, angles, and planes.</i> 	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		

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	Data Analysis			
5.0	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.			
5.5.1	<ul style="list-style-type: none"> Collect, organize, read, and interpret data using a variety of graphic representations including tables, line plots, stem and leaf plots, scatter plots, histograms; use data to draw and explain conclusions and predictions. 	Appetizers 5 B; 12 B; Main Dish Objectives 5 (Probability/Statistics) Lesson 2; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
5.5.4	<ul style="list-style-type: none"> Model and then compute measures of central tendency including mean, median, and mode. 	Appetizers 5 E; Main Dish Objective 5 (Probability/Statistics) Lesson 5; Application; Final Test; Reasonableness Problems; Journal Topics		
5.5.6	<ul style="list-style-type: none"> Describe the limitations of various graph formats; select an appropriate type of graph to accurately represent the data and justify the selection. 	Appetizers 5 B; 12 B; Main Dish Objectives 5 (Probability/Statistics) Lesson 2; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
	Problem Solving			
6.0	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.			
6.1	<ul style="list-style-type: none"> Select, modify, develop, and apply strategies to solve a variety of mathematical and practical problems and to investigate and understand mathematical concepts. 	Appetizers 11 A & B; 12 A; 13 A; Main Dish Objectives 11 (Problem Solving) Lessons 1 & 2; 12 (Mathematical Relations) Lesson 1; 13 (Reasonableness) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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6.2	• <i>Apply previous experience and knowledge to new problem-solving situations.</i>	All Appetizers; All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics		
6.5	• <i>Verify, interpret, and evaluate results with respect to the original problem situation, determining an efficient strategy for the given situation.</i>	All Appetizers; All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics		
6.6	• <i>Try more than one strategy when the first strategy proves to be unproductive.</i>	Appetizers 11 A; 12 A; 13 A; Main Dish Objectives 11 (Problem Solving) Lesson 1; 12 (Mathematical Representation) Lesson 1; 13 (Reasonableness) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
6.7	• <i>Apply multi-step, integrated, mathematical problem-solving strategies, persisting until a solution is found or until it is clear that no solution exists.</i>	Appetizers 11 A; Main Dish Objective 11 (Problem Solving) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		
6.9	• <i>Generalize solutions and strategies from earlier problems to new problem situations.</i>	Appetizers 11 A & B; 12 A; 13 A & B; Main Dish Objectives 11 (Problem Solving) Lessons 1 & 2; 12 (Mathematical Representation) Lesson 1; 13 (Reasonableness) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
6.10	• <i>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.</i>	Appetizers 11 A; 12 A; 13 A; Main Dish Objectives 11 (Problem Solving) Lesson 1; 12 (Mathematical Representation) Lesson 1; 13 (Reasonableness) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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6.13	• Use technology, including calculators, to solve problems and verify solutions.			
6.14	• Use technology, including calculators, to investigate, define, and describe quantitative relationships such as patterns and functions.			
Mathematical Communication				
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	• Discuss and exchange ideas about mathematics as a part of learning.	All Appetizers; All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics		
7.2	• Use inquiry techniques (e.g., discussion, questioning, research, data gathering) to solve mathematical problems.	Interactive discussions throughout all Appetizers; Main Dish Objectives 12 (Mathematical Representation) Lesson 1; 13 (Reasonableness) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
7.5	• Identify and translate key words and phrases that imply mathematical operations.	Appetizers 11 A; 12 A; 13 A; Main Dish Objectives 11 (Problem Solving) Lesson 1; 12 (Mathematical Representation) Lesson 1; 13 (Reasonableness) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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7.8	<ul style="list-style-type: none"> Use physical material, diagrams, and tables to represent and then communicate mathematical ideas through oral, verbal, and written formats. 	Appetizers 5 B & C; 12 B; Main Dish Objectives 5 (Probability/Statistics) Lessons 2 & 3; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
7.11	<ul style="list-style-type: none"> Make conjectures and present arguments in discussions of mathematical ideas. 	Interactive discussions throughout all Appetizers; Main Dish Objectives - Journal Topics		
7.12	<ul style="list-style-type: none"> Explain and justify thinking about mathematical ideas and solutions. 	Interactive discussions throughout all Appetizers		
7.15	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Use mathematical notation to communicate and explain mathematical situations. 	Interactive discussions throughout all Appetizers; Main Dish Objectives - Journal Topics		

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	Mathematical Reasoning			
8.0	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.			
8.2	<ul style="list-style-type: none"> <i>Justify answers and the steps taken to solve problems with and without manipulatives and physical models.</i> 	All Appetizers; All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics		
8.4	<ul style="list-style-type: none"> <i>Use patterns and relationships to analyze mathematical situations; draw logical conclusions about mathematical problems.</i> 	Appetizers 2 A, B, C, & D; 5 A, C, & D; Main Dish Objectives 2 (Mathematical Relations) Lessons 1, 2, 3, & 4; 5 (Probability/Statistics) Lessons 1, 3, & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
8.5	<ul style="list-style-type: none"> <i>Follow a logical argument and judge its validity.</i> 	Appetizers 2 A; 5 A & C; 12 B; 13 A; Main Dish Objectives 2 (Mathematical Relations) Lesson 1; 5 (Probability/Statistics) Lessons 1, & 3; 12 (Mathematical Representation) Lesson 2; 13 (Reasonableness) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
8.6	<ul style="list-style-type: none"> <i>Apply deductive and inductive reasoning in mathematical situations to extend logical reasoning.</i> 	All Appetizers; All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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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		
Mathematical Connections				
9.0	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.			
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"> Use models to explain the relationship of concepts to procedures. 	Appetizers 2 A, B, & C; 3 A, B, & C; 4 D & E; 5 A & C; 12 A; 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; 12 (Mathematical Representation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
9.5	<ul style="list-style-type: none"> Identify practical applications of mathematical principles that can be applied to other disciplines. 			
9.7	<ul style="list-style-type: none"> Apply mathematical thinking and modeling to solve problems that arise in other disciplines (e.g., rhythm in music and motion in science). 			
9.8	<ul style="list-style-type: none"> Identify, explain, and use mathematics in everyday life. 	All Appetizers; Main Dish Objectives 3 (Geometry) Lessons 1 & 2; 4 (Measurement) Lessons 1, 2, 3, & 6; 5 (Probability/Statistics) Lesson 1; 6 (Addition) All Lessons; 7 (Subtraction) All Lessons; 8 (Multiplication) All Lessons; 9 (Division) All Lessons; 10 (Estimation) Lesson 1; 11 (Problem Solving) Lessons 1, 2, 3, & 4; 13 (Reasonableness) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		