Nevada
Curricular Standards
Mathematics - Grade 4
Correlations with Gourmet Curriculum Press, Inc.©

1.800.900.2290

Benchmark Number	*Benchmark* • *Instructional Target*	*Gourmet Resource*	*Taught*	*Tested*
	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.**			
1.4.1	• *Immediately recall and use multiplication and corresponding division facts through 12s.*	**Appetizers 2 A; 8 A; 9 A; 11 B; Main Dish Objectives 2 (Mathematical Relations) Lesson 1; 8 (Multiplication) Lesson 1; 9 (Division) Lesson 1; 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
1.4.3	• *Generate and solve 2-step multiplication and division problems based on practical situations using pencil and paper, mental computation, and estimation.*	**Appetizers 11 F; Main Dish Objective 11 (Problem Solving) Lesson 6; Application; Final Test; Reasonableness Problems; Journal Topics**		
1.4.4	• *Multiply and divide money amounts by a one-digit whole number producing a solution with no remainder.*	**Appetizers 9 D; Main Dish Objective 9 (Division) Lesson 4; Application; Final Test; Reasonableness Problems; Journal Topics**		
1.4.5	• *Multiply and divide multi-digit numbers by a one-digit number with regrouping, model and explain division including as repeated subtraction.*	**Appetizers 8 A & B; 9 A, B, & C; Main Dish Objectives 8 (Multiplication) Lessons 1 & 2; 9 (Division) Lessons 1, 2, & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		

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1.4.6	• *Read, write, order, and compare whole numbers.*	**Appetizers 1 A & B; Main Dish Objective 1 (Number Concepts) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
1.4.7	• *Use estimation to determine reasonableness of an answer.*	**Appetizers 1 D; 10 C; 13 B; Main Dish Objectives 1 (Number Concepts) Lesson 4; 10 (Estimation) Lesson 3; 13 (Reasonableness) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
1.4.8	• *Use and identify place value positions of whole numbers.*	**Appetizers 1 C; Main Dish Objective 1 (Number Concepts) Lesson 3; Application; Final Test; Reasonableness Problems; Journal Topics**		
1.4.9	• *Identify and compare fractions with like denominators using numbers, models, and drawings.*	**Appetizers 1 G; Main Dish Objective 1 (Number Concepts) Lesson 7; Application; Final Test; Reasonableness Problems; Journal Topics**		
	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.**			
2.4.1	• *Identify, describe, and represent numeric and geometric patterns and relationships.*	**Appetizers 2 B; 3 C; 8 A; Main Dish Objectives 2 (Mathematical Relations) Lesson 2; 3 (Geometry) Lesson 3; 8 (Multiplication) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**		

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2.4.3	• *Find solutions to given equalities from a given replacement set, (e.g., find the solution to 3 x 7 = ____ , given the replacement set {19, 20, 21}).*	**Appetizers 2 A; 8 A; Main Dish Objectives 2 (Mathematical Relations) Lesson 1; 8 (Multiplication) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
	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.**			
3.4.2	• *Measure and compare length in inches, feet, yards, and miles to the nearest 1/2, 1/4; measure and compare lengths in metric units (millimeter, centimeter, meter, kilometer); convert within each system.*	**Appetizers 4 C & D; Main Dish Objective 4 (Measurement) Lessons 3 & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
3.4.3	• *Communicate the difference between perimeter and area; describe and determine the perimeter of polygons and the area of rectangles (including squares).*	**Appetizers 4 G & H; 11 E; Main Dish Objectives 4 (Measurement) Lessons 7 & 8; 11 (Problem Solving) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
3.4.4	• *Determine totals for monetary amounts in problem-solving situations.*	**Appetizers 6 B; 7 C; 9 D; Main Dish Objectives 6 (Addition) Lesson 2; 7 (Subtraction) Lesson 3; 9 (Division) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
3.4.5	• *Describe and determine the perimeter of polygons and the area of rectangles (including squares).*	**Appetizers 4 G & H; 11 E; Main Dish Objectives 4 (Measurement) Lessons 7 & 8; 11 (Problem Solving) Lesson 5; 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.**			
4.4.1	• *Identify, draw, and classify angles according to their measurement, including right, obtuse, and acute.*	**Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4; Application; Final Test; Reasonableness Problems; Journal Topics**		
4.4.2	• *Represent concepts of similarity, congruence, and symmetry using transformational motion.*	**Appetizers 3 B & C; Main Dish Objective 3 (Geometry) Lessons 2 & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
4.4.4	• *Identify, describe, and classify two- and three-dimensional figures by relevant properties including the number of vertices (corners), edges, and shapes of faces, using models.*	**Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics**		
4.4.6	• *Identify, describe, and draw geometric figures including points, intersecting lines, parallel lines, line segments, rays, and angles.*	**Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4; Application; Final Test; Reasonableness Problems; Journal Topics**		
	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.**			
5.4.1	• *Collect, organize, display, describe, and interpret simple data using number lines, pictographs, bar graphs, and frequency tables.*	**Appetizers 2 C; 5 C; 12 B; Main Dish Objectives 2 (Mathematical Relations) Lesson 3; 5 (Probability/Statistics) Lesson 3; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		

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5.4.2	• *Conduct simple probability experiments using concrete materials and represent the results using fractions.*	**Appetizers 5 A; Main Dish Objective 5 (Probability/Statistics) Lesson 1; Application; Final Test; 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	• *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 & 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	• *Apply previous experience and knowledge to new problem-solving situations.*	**All Appetizers; All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
6.5	• *Verify, interpret, and evaluate results with respect to the original problem situation, determining an efficient strategy for the given situation.*	**Interactive discussions throughout all Appetizers; Main Dish Objectives 11 (Problem Solving) Lessons 1, 2, 3, 4, & 6; 13 (Reasonableness) Lessons 2 & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		

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6.6	• *Try more than one strategy when the first strategy proves to be unproductive.*	**Appetizers 11 A; 12 B; Main Dish Objectives 11 (Problem Solving) Lesson 1; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
6.9	• *Generalize solutions and strategies from earlier problems to new problem situations.*	**Appetizers 11 F; 12 A; Main Dish Objectives 11 (Problem Solving) Lesson 6; 12 (Mathematical Relations) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
6.10	• *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.*	**Interactive discussions throughout all Appetizers; Main Dish Objective 11 (Problem Solving) Lessons 3, 4, & 6; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
6.12	• *Use technology, including calculators, to understand quantitative relationships, e.g., for skip counting and pattern explorations.*			
	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**		

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7.2	• *Use inquiry techniques (e.g., discussion, questioning, research, data gathering) to solve mathematical problems.*	**Interactive discussions throughout all Appetizers; Main Dish Objectives 5 (Probability/Statistics) Lesson 2; 12 (Mathematical Representation) Lesson 2; 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 & B; 12 B; Main Dish Objectives 11 (Problem Solving) Lessons 1 & 2; 12 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
7.8	• *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	• *Make conjectures and present arguments in discussions of mathematical ideas.*	**Interactive discussions throughout all Appetizers; Main Dish Objectives - Journal Topics**		
7.12	• *Explain and justify thinking about mathematical ideas and solutions.*	**Interactive discussions throughout all Appetizers**		
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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	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.**			
8.1	• *Justify and explain the solutions to problems using manipulatives and physical models.*	**Appetizers 1 G; 3 C; 9 A; Main Dish Objectives 1 (Number Concepts) Lesson 7; 3 (Geometry) Lesson 3; 9 (Division) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
8.4	• *Use patterns and relationships to analyze mathematical situations; draw logical conclusions about mathematical problems.*	**Appetizers 2 A, B, C, & D; Main Dish Objective 2 (Mathematical Relations) Lessons 1, 2, 3, & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
8.5	• *Follow a logical argument and judge its validity.*	**Interactive discussions throughout Appetizers**		
8.6	• *Apply deductive and inductive reasoning in mathematical situations to extend logical reasoning.*	**All Appetizers; All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics**		

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8.8	• *Ask questions to reflect on, clarify, and extend thinking.*	**Interactive discussions throughout all Appetizers; Main Dish Objective 13 (Reasonableness); Application; Final Test; Reasonableness Problems; Journal Topics**		
8.9	• *Review and refine the assumptions and steps used to derive conclusions in mathematical arguments.*	**Interactive discussions throughout all Appetizers; Main Dish Objective 13 (Reasonableness); Application; Final Test; Reasonableness Problems; Journal Topics**		
8.11	• *Determine relevant, irrelevant, and/or sufficient information to solve mathematical problems.*	**Appetizers 11 C & D; Main Dish Objective 11 (Problem Solving) Lessons 3 & 4; 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	• *Link new concepts to prior knowledge.*	**All Appetizers; All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
9.2	• *Use mathematical ideas from one area of mathematics to explain an idea from another area of mathematics.*	**All Main Dish Objectives - Journal Topics**		

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9.3	• *Use models to explain the relationship of concepts to procedures.*	**Appetizers 1 E & G; 2 A; 3 A, B, C, & D; 5 A, B, & C; 6 A & D; 8 A; 9 A; Main Dish Objectives 1 (Number Concepts) Lessons 5 & 7; 2 (Mathematical Relations) Lesson 1; 3 (Geometry) Lessons 1, 2, 3, & 4; 5 (Probability/Statistics) Lessons 1, 2, & 3; 6 (Addition) Lessons 1 & 4; 8 (Multiplication) Lesson 1; 9 (Division) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
9.5	• *Identify practical applications of mathematical principles that can be applied to other disciplines.*	**Appetizers 13 A, B, & C; Main Dish Objective 13 (Reasonableness) Lessons 1, 2, & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
9.7	• *Apply mathematical thinking and modeling to solve problems that arise in other disciplines (e.g., rhythm in music and motion in science).*	**Appetizers 13 A, B, & C; Main Dish Objective 13 (Reasonableness) Lessons 1, 2, & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
9.8	• *Identify, explain, and use mathematics in everyday life.*	**All Appetizers; Main Dish Objectives 4 (Measurement) Lessons 1, 2, & 4; 10 (Estimation) Lessons 1, 2, & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		