

New Mexico
Curricular Standards
Mathematics - Grade 2
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<i>Benchmark Number</i>	<i>Benchmark</i> • <i>Instructional Targets</i>	<i>Gourmet Resource</i>	<i>Taught</i>	<i>Tested</i>
	NUMBER AND OPERATIONS			
Content Standard	Students will understand numerical concepts and mathematical operations.			
Grade 2 Benchmark	Understand numbers, ways of representing numbers, relationships among numbers, and number systems.			
1	<ul style="list-style-type: none"> • <i>Understand the relationship between numbers, quantities, and place value in whole numbers up to 1,000 and develop flexible ways of thinking about numbers:</i> <ul style="list-style-type: none"> - <i>use multiple models to explore place value and the base-ten number system</i> - <i>represent whole numbers and use them in flexible ways including decomposing and recombining numbers and see their relationship (e.g., 3 is one less than 4, one more than 2, two less than 5)</i> - <i>identify whether a set of objects has an odd or even number of elements</i> - <i>compare and order numbers using a variety of terms (e.g., tens, less than, odd numbers)</i> - <i>apply strategies for computation utilizing an understanding of place value (e.g., $48 + 25$ would be $40 + 20$ is 60, $8 + 5$ is 13, $60 + 13$ is 73)</i> 	<p>Appetizers 1 A & B; Main Dish Objective 1 (Number Concepts) Lessons 1 & 2</p> <p>Appetizers 2 A, B, C, & D; Main Dish Objective 2 (Mathematical Relations) Lessons 1, 2, 3, & 4</p> <p>Appetizers 1 C; Main Dish Objective 1 (Number Concepts) Lesson 3</p> <p>Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1</p> <p>Appetizers 1 B; Main Dish Objective 1 (Number Concepts) Lesson 2</p> <p>Applications; Final Tests; Reasonableness Problems; Journal Topics</p>		

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2	<ul style="list-style-type: none"> Apply counting skills and number sense through meaningful activities: <ul style="list-style-type: none"> count and recognize “how many” in sets of objects up to 1,000 count forward and backward from given numbers to 1,000 connect number words and numerals to the quantities they represent using physical models and other representations (e.g., 23 can be twenty-three 1s, one 10 and thirteen 1s, or two 10s and three 1s) model how many parts make a whole using equal fractional parts (e.g., $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, and $\frac{1}{6}$ as equal parts of a whole) 	<p>Appetizers 1 A & B; Main Dish Objective 1 (Number Concepts) Lessons 1 & 2</p> <p>Appetizers 1 A & B; Main Dish Objective 1 (Number Concepts) Lessons 1 & 2</p> <p>Appetizers 1 A & B; Main Dish Objective 1 (Number Concepts) Lessons 1 & 2</p> <p>Appetizers 1 D & E; Main Dish Objective 1 (Number Concepts) Lessons 4 & 5</p> <p>Applications; Final Test; Reasonableness Problems; Journal Topics</p>		
Grade 2 Benchmark	Understand the meaning of operations and how they relate to one another.			
1	<ul style="list-style-type: none"> Find the sum of two whole numbers up to three digits long (e.g., $235 + 476 = \square$; $564 - 273 = \square$). 	Appetizers 6 B; Main Dish Objective 6 (Addition) Lesson 2; Application; Final Test; Reasonableness Problems; Journal Topics		
2	<ul style="list-style-type: none"> Find the difference of two whole numbers up to three digits long. 	Appetizers 7 B; Main Dish Objective 7 (Subtraction) Lesson 2; Application; Final Test; Reasonableness Problems; Journal Topics		
3	<ul style="list-style-type: none"> Understand and use the inverse relationships between addition and subtraction to solve problems and check solutions ($28 + 31 = 59$; therefore, $59 - 31 = 28$). 	Appetizers 2 A, B, & C; 6 B & C; Main Dish Objectives 2 (Mathematical Relations) Lessons 1, 2, & 3; 6 (Addition) Lessons 2 & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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4	<ul style="list-style-type: none"> Identify and describe situations that require multiplication and division and develop strategies to solve problems for repeated joining of groups and partitioning into equal subgroups or shares (e.g., repeated addition and subtraction, counting by multiples, equal sharing). 	Appetizers 8 A; 9 A; Main Dish Objectives 8 (Multiplication) Lesson 1; 9 (Division) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
Grade 2 Benchmark	Compute fluently and make reasonable estimates.			
1	<ul style="list-style-type: none"> Use and explain strategies for addition and subtraction of multi-digit whole numbers. 	Appetizers 6 B; 7 B; Main Dish Objectives 6 (Addition) Lesson 2; 7 (Subtraction) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2	<ul style="list-style-type: none"> Model and solve problems representing adding and subtracting amounts of money using dollars and coins. 	Appetizers 6 C; 7 C; Main Dish Objectives 6 (Addition) Lesson 3; 7 (Subtraction) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
3	<ul style="list-style-type: none"> Use addition combinations (addends through 10) and related subtraction combinations, and develop strategies for computing based on number sense (e.g., $25 + 37$: Take 3 from the 25 and use it to turn 37 into 40; then add 40 and 22 to get 62). 			

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4	<ul style="list-style-type: none"> Select and use a variety of appropriate strategies methods to compute (e.g., objects, mental computation, estimation, paper and pencil). 	All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics		
5	<ul style="list-style-type: none"> Skip-count by 2, 5, and 10 to develop multiplicative reasoning and notational representations (e.g., 5, 10, 15, 20; $4 \times 5 = 20$; four group of 5 equals 20). 	Appetizers 1 C; 8 A; Main Dish Objectives 1 (Number Concepts) Lesson 3; 8 (Multiplication) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
ALGEBRA				
Content Standard	Students will understand algebraic concepts and applications.			
Grade 2 Benchmark	Understand patterns, relations, and functions.			
1	<ul style="list-style-type: none"> Recognize, reproduce, describe, extend, and create repeating and growing patterns, and translate from one representation to another. 	Appetizers 2 E; Main Dish Objective 2 (Mathematical Relations) Lesson 5; Application; Final Test; Reasonableness Problems; Journal Topics		
2	<ul style="list-style-type: none"> Skip-count using calculators or a hundreds chart to identify, describe, predict, and make generalizations about number patterns to differentiate rote counting versus the meaning of the numbers. 	Appetizers 1 C; Main Dish Objective 1 (Number Concepts) Lesson 3; Application; Final Test; Reasonableness Problems; Journal Topics		
3	<ul style="list-style-type: none"> Construct and solve open sentences that have variables (e.g., $10 = \square + 7$). 	Appetizers 2 A, B, C, & D; Main Dish Objective 2 (Mathematical Relations) Lessons 1, 2, 3, & 4; Applications; Final Test; Reasonableness Problems; Journal Topics		

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4	<ul style="list-style-type: none"> Relate everyday problem situations to number sentences involving addition and subtraction (e.g., 25 students are going to the store. Five students can ride in a car. How many cars will be needed?). 	Appetizers 13 A; Main Dish Objective 13 (Reasonableness) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		
Grade 2 Benchmark	Represent and analyze mathematical situations and structures using algebraic symbols.			
1	<ul style="list-style-type: none"> Use mathematical language to describe a variety of representations and mathematical ideas and situations. 	All Appetizers; All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2	<ul style="list-style-type: none"> Explain the concept of equal (e.g., quantities on both sides of equation are the same) by using objects or given examples. 	Appetizers 1 A; 2 A, B, C, & D; Main Dish Objectives 1 (Number Concepts) Lesson 1; 2 (Mathematical Relations) Lessons 1, 2, 3, & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
3	<ul style="list-style-type: none"> Construct and solve open number sentences that have variables representing numbers up to 20 (e.g., $20 = \square + 6$). 	Appetizers 2 A, B, C, & D; Main Dish Objective 2 (Mathematical Relations) Lessons 1, 2, 3, & 4; Applications; Final Test; Reasonableness Problems; Journal Topics		
4	<ul style="list-style-type: none"> Use objects, words, and symbols to explain the concept of addition. 	Appetizers 2 A & B; 6 A; Main Dish Objectives 2 (Mathematical Relations) Lessons 1 & 2; 6 (Addition) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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Grade 2 Benchmark	Use mathematical models to represent and understand quantitative relationships.			
1	<ul style="list-style-type: none"> Model situations of addition and subtraction of whole numbers using objects, pictures, and symbols. 	Appetizers 6 A; 7 A; Main Dish Objectives 6 (Addition) Lesson 1; 7 (Subtraction) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2	<ul style="list-style-type: none"> Solve problems related to trading (e.g., coin trading, measurement trading). 	Appetizers 4 A; 6 C; 7 C; Main Dish Objectives 4 (Measurement) Lesson 1; 6 (Addition) Lesson 3; 7 (Subtraction) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
3	<ul style="list-style-type: none"> Solve addition and subtraction problems by using data from simple charts, picture graphs, and number sentences. 	Appetizers 2 A, B, C, & D; 5 B; 12 C; Main Dish Objectives 2 (Mathematical Relations) Lessons 1, 2, 3, & 4; 5 (Probability/Statistics) Lesson 2; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
Grade 2 Benchmark	Analyze changes in various contexts.			
1	<ul style="list-style-type: none"> Describe quantitative change (e.g., a student growing two inches in one year, water heating up to boil). 	Appetizers 13 A; Main Dish Objective 13 (Reasonableness) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		

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	GEOMETRY			
Content Standard	Students will understand geometric concepts and applications.			
Grade 2 Benchmark	Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships.			
1	<ul style="list-style-type: none"> • <i>Identify and describe the attributes of common figures in a plane and common objects in space:</i> <ul style="list-style-type: none"> - <i>sort, describe, and analyze plane and solid geometric shapes (e.g., circle, triangle, square, rectangle, sphere, pyramid, cube, rectangular prism) based on various attributes (e.g., faces, edges, and corners)</i> - <i>put shapes together and take them apart to form other shapes (e.g., two congruent right triangles can be arranged to form a rectangle)</i> - <i>explore lines of symmetry in two-dimensional shapes</i> 	<p>Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1</p> <p>Appetizers 3 B; Main Dish Objective 3 (Geometry) Lesson 1</p> <p>Appetizers 3 C; Main Dish Objective 3 (Geometry) Lesson 2</p> <p>Applications; Final Test; Reasonableness Problems; Journal Topics</p>		

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Grade 2 Benchmark	Specify locations and describe spatial relationships using coordinate geometry and other representational systems.			
1	<ul style="list-style-type: none"> Find the name locations with simple relationships like “near to” and apply ideas about relative position. 	Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lesson 1; Cooperative Learning - Shape Treasure Hunt; Application; Final Test; Reasonableness Problems; Journal Topics		
2	<ul style="list-style-type: none"> Describe, name, and interpret direction in navigating space and apply ideas about direction and distance. 	N/A		
3	<ul style="list-style-type: none"> Use maps to locate points and navigate through mazes or maps. 	N/A		
4	<ul style="list-style-type: none"> Visualize, justify, and create paths using landmarks, space, shapes, and descriptive language. 	N/A		
5	<ul style="list-style-type: none"> Make and draw rectangular arrays of squares. 	N/A		
Grade 2 Benchmark	Apply transformations and use symmetry to analyze mathematical situations.			
1	<ul style="list-style-type: none"> Use systematic thinking to solve geometric puzzles (e.g., pentominoes). 	Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		
2	<ul style="list-style-type: none"> Use materials to investigate rotational and line symmetry and create shapes that have symmetry. 	Appetizers 3 C; Main Dish Objective 3 (Geometry) Lesson 2; Application; Final Test; Reasonableness Problems; Journal Topics		

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Grade 2 Benchmark	Use visualization, spatial reasoning, and geometric modeling to solve problems.			
1	<ul style="list-style-type: none"> Demonstrate relationships of different attributes with concrete materials (e.g., change one characteristic of a shape while preserving others such as increasing number of sides while perimeter stays the same). 	Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		
2	<ul style="list-style-type: none"> Select and use visualization skills to create mental images of geometric shapes. 	Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		
3	<ul style="list-style-type: none"> Describe geometric shapes and structures from different perspectives. 	Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		
4	<ul style="list-style-type: none"> Relate geometric ideas to numbers (e.g., seeing rows in array as a model of repeated addition). 	Appetizers 8 A; Main Dish Objective 8 (Multiplication) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		
5	<ul style="list-style-type: none"> Recognize geometric shapes and structures in the environment and specify their location. 	Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		

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MEASUREMENT				
Content Standard	Students will understand measurement systems and applications.			
Grade 2 Benchmark	Understand measurable attributes of objects and the units, systems, and process of measurement.			
1	<ul style="list-style-type: none"> Identify a unit of measure (e.g., nearest inch) and repeat that unit comparing it to the item being measured. 	Appetizers 4 A & B; Main Dish Objective 4 (Measurement) Lessons 1 & 2; Applications; Final Test; Reasonableness Problems; Journal Topics		
2	<ul style="list-style-type: none"> Use direct comparison to compare and order objects according to length, mass, and area. 	Appetizers 4 A & B; Main Dish Objective 4 (Measurement) Lessons 1 & 2; Applications; Final Test; Reasonableness Problems; Journal Topics		
3	<ul style="list-style-type: none"> Measure and compare common objects using standard and non-standard units of length. 	Appetizers 4 A & B; Main Dish Objective 4 (Measurement) Lessons 1 & 2; Applications; Final Test; Reasonableness Problems; Journal Topics		
4	<ul style="list-style-type: none"> Find and represent the value of a collection of coins and dollars up to \$5.00, using appropriate notation. 	Appetizers 6 C; 7 C; Main Dish Objectives 6 (Addition) Lesson 3; 7 (Subtraction) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
5	<ul style="list-style-type: none"> Identify and use time intervals (e.g., hours, days, weeks, months). 	Appetizers 4 C; Main Dish Objective 4 (Measurement) Lesson 3; Application; Final Test; Reasonableness Problems; Journal Topics		
6	<ul style="list-style-type: none"> Select and use appropriate measurement tools (e.g., ruler, yardstick, meter stick). 	Appetizers 4 A & B; Main Dish Objective 4 (Measurement) Lessons 1 & 2; Applications; Final Test; Reasonableness Problems; Journal Topics		

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7	<ul style="list-style-type: none"> Tell time to the nearest quarter hour. 	Appetizers 4 C; Main Dish Objective 4 (Measurement) Lesson 3; Application; Final Test; Reasonableness Problems; Journal Topics		
Grade 2 Benchmark	Apply appropriate techniques, tools, and formulas to determine measurements.			
1	<ul style="list-style-type: none"> Develop common referents to make comparisons and estimates of length, volume, weight, area, and time. 	Appetizers 4 A, B, & C; 10 A; Main Dish Objectives 4 (Measurement) Lessons 1, 2, & 3; 10 (Estimation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2	<ul style="list-style-type: none"> Develop an understanding that different measuring tools will yield different numerical measurements of the same object (e.g., ruler, yardstick, meterstick, paper clip). 	Appetizers 4 A & B; Main Dish Objective 4 (Measurement) Lessons 1 & 2; Applications; Final Test; Reasonableness Problems; Journal Topics		
3	<ul style="list-style-type: none"> Estimate measurements and develop precision in measuring objects. 	Appetizers 10 A; Main Dish Objective 10 (Estimation) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		
DATA ANALYSIS AND PROBABILITY				
Content Standard	Students will understand how to formulate questions, analyze data, and determine probabilities.			
Grade 2 Benchmark	Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them.			
1	<ul style="list-style-type: none"> Collect numerical data systematically. 	Appetizers 5 A; Main Dish Objective 5 (Probability/Statistics) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		

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2	<ul style="list-style-type: none"> Represent data by using concrete objects, pictures, tables, numbers, tallies, and graphs (e.g., pictographs). 	Appetizers 5 A & B; 12 C; Main Dish Objectives 5 (Probability/Statistics) Lessons 1 & 2; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
3	<ul style="list-style-type: none"> Pose questions about students' selves and their surroundings and gather data by interviewing, surveying, and making observations to answer the questions posed. 	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		
4	<ul style="list-style-type: none"> Identify patterns and explain the relationships of the units in the pattern (e.g., the number of ears on one dog, two dogs, etc., or linear numerical patterns). 	Appetizers 2 F & G; Main Dish Objective 2 (Mathematical Relations) Lessons 6 & 7; Applications; Final Test; Reasonableness Problems; Journal Topics		
Grade 2 Benchmark	Select and use appropriate statistical methods to analyze data.			
1	<ul style="list-style-type: none"> Describe and interpret data by drawing conclusions and making conjectures based on the data collected. 	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		
2	<ul style="list-style-type: none"> Display data in a variety of formats. 	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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Grade 2 Benchmark	Develop and evaluate inferences and predictions that are based on data.			
1	<ul style="list-style-type: none"> Discuss events related to students' experiences as "likely" or "unlikely" and "possible" or "certain". 	Appetizers 5 C; Main Dish Objective 5 (Probability/Statistics) Lesson 3; Application; Final Test; Reasonableness Problems; Journal Topics		
2	<ul style="list-style-type: none"> Recognize appropriate conclusions generated from the data collected. 	Appetizers 5 C; Main Dish Objective 5 (Probability/Statistics) Lesson 3; Application; Final Test; Reasonableness Problems; Journal Topics		
3	<ul style="list-style-type: none"> Recognize inappropriate descriptions of the data set. 	Appetizers 5 C; Main Dish Objective 5 (Probability/Statistics) Lesson 3; Application; Final Test; Reasonableness Problems; Journal Topics		
Grade 2 Benchmark	Understand and apply basic concepts of probability.			
1	<ul style="list-style-type: none"> Investigate concepts of chance (e.g., outcomes of a simple experiment). 	Appetizers 5 C; Main Dish Objective 5 (Probability/Statistics) Lesson 3; Application; Final Test; Reasonableness Problems; Journal Topics		
2	<ul style="list-style-type: none"> Investigate whether outcomes of a simple event are equally likely to occur. 	Appetizers 5 C; Main Dish Objective 5 (Probability/Statistics) Lesson 3; Application; Final Test; Reasonableness Problems; Journal Topics		