Arizona
Academic Standards & Accountability (AIMS)
Mathematics - Grade 6
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1.800.900.2290

Benchmark Number	*Benchmark* • *Instructional Targets*	*Gourmet Resource*	*Taught*	*Tested*
	Number Sense 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.			
IM-E1	• ***Read, write, and order integers, whole numbers, and rational numbers.***			
PO 1	• *Compare and order using concrete or illustrated models*			
D	• *rational numbers (e.g., -5, 1.2, 1 3/4, square root of 16)*	**Appetizers 1 A & B; Main Dish Objective 1 (Number Concepts) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 2	• *Represent place value using concrete or illustrated models*			
B	• *rational numbers (millions to millionths)*	**Appetizers 1 A & B; Main Dish Objective 1 (Number Concepts) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 3	• *Read and write whole numbers, integers, common fractions, and decimals using real-world situations.*	**Appetizers 1 A & B; Main Dish Objective 1 (Number Concepts) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		

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IM-E2	• ***Relate the basic arithmetic operations to one another (e.g., multiplication and division are inverse operations).***			
PO 1	• *Represent the process of multiplication as repeated addition, using concrete or illustrative models*	**Appetizers 8 A; Main Dish Objective 8 (Multiplication) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
B	• *fractions and decimals*	**Appetizers 8 A & C; Main Dish Objective 8 (Multiplication) Lessons 1 & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 2	• *Represent the process of division as repeated subtraction, partitioning a group and partitioning a whole using concrete or illustrative models*	**Appetizers 9 A & B; Main Dish Objective 9 (Division) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
B	• *fractions and decimals*	**Appetizers 9 E; Main Dish Objective 9 (Division) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 3	• *Write the family of equations using inverse operations for a given set of numbers*	**Appetizers 2 A; Main Dish Objective 2 (Mathematical Relations) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
B	• *positive fractions and decimals, integers with addition/subtraction and multiplication/division*	**Appetizers 1 C; 6 C & D; 7 B & C; 9 E; Main Dish Objectives 1 (Number Concepts) Lesson 3; 6 (Addition) Lessons 3 & 4; 7 (Subtraction) Lessons 2 & 3; 9 (Division) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics**		

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IM-E3	• ***Demonstrate proficiency with the operations of multiplication and division of whole numbers.***			
PO 1	• *Calculate multiplication/division*	**Appetizers 8 A & B; 9 B; Main Dish Objectives 8 (Multiplication) Lessons 1 & 2; 9 (Division) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
E	• *two-digit divisor, with remainders and rounding in context (e.g., percentages and money)*	**Appetizers 9 B, C, & D; Main Dish Objective 9 (Division) Lessons 2, 3, & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 2	• *Calculate multiplication and division problems using contextual situations*	**Appetizers 8 A, B, C, & D; 9 A, B, C, & D; 11 A; Main Dish Objectives 8 (Multiplication) Lessons 1, 2, 3, & 4; 9 (Division) Lessons 1, 2, 3, & 4; 11 (Problem Solving) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
IM-E4	• ***Develop and apply number theory concepts (e.g., primes, factors, and multiples) to represent numbers in various ways.***			
PO 2	• *Factor a whole number into a product of its primes (prime factorization)*	**Appetizers 1 F; Main Dish Objective 1 (Number Concepts) Lesson 6; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 3	• *Identify greatest common factor and least common multiples for a set of whole numbers*	**Appetizers 1 D & F; Main Dish Objective 1 (Number Concepts) Lessons 4 & 6; Applications; Final Tests; Reasonableness Problems; Journal Topics**		

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PO 4	• *Sort numbers by their properties*			
B	• *prime, composite, square, square root*	**Appetizers 1 F; Main Dish Objective 1 (Number Concepts) Lesson 6; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 5	• *Simplify numerical expressions using order of operations*	**Appetizers 2 A & D; Main Dish Objective 2 (Mathematical Relations) Lessons 1 & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
IM-E5	• ***Represent and use numbers in equivalent forms (integers, fractions, percent, decimals, exponents, scientific notation, and square roots).***			
PO 1	• *Add, subtract, multiply, and divide integers, positive fractions, and decimals*	**Appetizers 6 A, B, & D; 7 A, B, & C; 8 A, B, C, & D; 9 A, B, D, & E; Main Dish Objectives 6 (Addition) Lessons 1, 2, & 4; 7 (Subtraction) Lessons 1, 2, & 3; 8 (Multiplication) Lessons 1, 2, 3, & 4; 9 (Division) Lessons 1, 2, 4, & 5; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 2	• *Demonstrate the relationships and equivalency among*			
B	• *decimals, fractions, ratios, percents*	**Appetizers 1 E; Main Dish Objective 1 (Number Concepts) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 3	• *Factor numbers into prime form and express in exponential form*	**Appetizers 1 F; Main Dish Objective 1 (Number Concepts) Lesson 6; Applications; Final Tests; Reasonableness Problems; Journal Topics**		

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PO 4	• *Convert standard notation to scientific notation and vice versa with positive exponents*	**Appetizers 1 F; Main Dish Objective 1 (Number Concepts) Lesson 6; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 5	• *Determine the square root of a perfect square*			
IM-E6	• ***Recognize that the degree of precision needed in calculating a number depends on how the results will be used and the instruments used to generate the measurements.***			
PO 1	• *Express answers to the appropriate place or degree of precision (e.g., time, money, pi)*	**Appetizers 1 B; 4 A, C, & D; 6 D; 7 D; 8 D; 11 B; Main Dish Objectives 1 (Number Concepts) Lesson 2; 4 (Measurement) Lessons 1, 3, & 4; 6 (Addition) Lesson 4; 7 (Subtraction) Lesson 4; 8 (Multiplication) Lesson 4; 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 2	• *Apply the appropriate strategy (e.g., estimation, approximation, rounding, or exact numbers) when calculating to solve problems*	**Appetizers 1 B; 7 D; 10 A, B, C, D, E, F, & G; Main Dish Objectives 1 (Number Concepts) Lesson 2; 7 (Subtraction) Lesson 4; 10 (Estimation) Lessons 1, 2, 3, 4, 5, 6, & 7; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 3	• *Demonstrate/describe the magnitude of*			
B	• *rational numbers (e.g., "How small is a bacterium?")*	**Appetizers 4 A & B; Main Dish Objective 4 (Measurement) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 4	• *Interpret calculations and calculator results within a contextual situation*			

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	Data Analysis and Probability 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.			
2M-E1	• ***Construct, read, analyze, and interpret tables, charts, graphs, and data plots (e.g., box-and-whisker, stem- and-leaf, and scatter plots)***			
PO 1	• *Construct*			
B	• *histograms, stem-and-leaf plots, scatter plots, circle graphs, and flow charts*	**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**		
PO 2	• *Interpret and analyze data from graphical representations and draw simple conclusions*			
B	• *histograms, stem-and-leaf plots, scatter plots, circle graphs, and flow charts*	**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**		
PO 3	• *Choose an appropriate graphical format to organize and represent data*	**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**		

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2M-E2	• ***Make valid inferences, predictions, and arguments based on statistical analysis.***			
PO 1	• *Formulate predictions from a given set of data and justify predictions*	**Appetizers 5 A, B, & C; Main Dish Objective 5 (Probability/Statistics) Lessons 1, 2, & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 2	• *Compare a given prediction with the results of an investigation*	**Appetizers 5 A & C; 11 D; Main Dish Objectives 5 (Probability/Statistics) Lessons 1 & 3; 11 (Problem Solving) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 3	• *Critique the conclusions and recommendations of others' statistics*	**Appetizers 5 A & C; 11 D; Main Dish Objectives 5 (Probability/Statistics) Lessons 1 & 3; 11 (Problem Solving) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 4	• *Consider the effects of missing or incorrect information*			
2M-E3	• ***Display and use measures of range and central tendency (i.e., mean, median, and mode).***			
PO 2	• *Find the mean, median, mode, and range of a data set*	**Appetizers 5 E; Main Dish Objective 5 (Probability/Statistics) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 3	• *Choose appropriate measures of central tendencies to describe given or derived data*	**Appetizers 5 E; Main Dish Objective 5 (Probability/Statistics) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics**		

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2M-E4	• ***Use counting strategies to determine all the possible outcomes of a particular event (e.g., the number of ways students can line up to have their pictures taken).***			
PO 1	• *Find all possible outcome sets involving*			
B	• *two or more sets of objects*	**Appetizers 5 A & C; Main Dish Objective 5 (Probability/Statistics) Lessons 1 & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 2	• *Find all possible arrangements given a set (e.g., "How many ways can you arrange a set of books on a shelf?")*	**Appetizers 5 C; Main Dish Objective 5 (Probability/Statistics) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
2M-E5	• ***Determine probabilities through experiments and/or simulations and compare the results with the mathematical expectation.***			
PO 1	• *Make predictions from the results of a student-generated experiment (empirical probability)*	**Appetizers 5 A & C; Main Dish Objective 5 (Probability/Statistics) Lessons 1 & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
B	• *two-stage events (e.g., two spinners)*	**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**		
PO 2	• *Determine and compare experimental (empirical) and mathematical (theoretical)*			

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PO 4	• *Express probability as a fraction, zero, or one*	**Appetizers 5 D; Main Dish Objective 5 (Probability/Statistics) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
	Patterns, Algebra, and Functions 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 problem-solving situations.			
3M-E1	• ***Use algebraic methods (write numbers sentences in the form of expressions and equations) to explore, model, and describe patterns and functions involving numbers, shapes, data, graphs, and data plots.***			
PO 4	• *Generate patterns using algebraic expressions*	**Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
3M-E2	• ***Describe, represent, and analyze patterns and relationships using shapes, tables, graphs, data plots, verbal rules, and standard algebraic notation.***			
3M-E3	• ***Describe the concepts of variables, expressions, equations, and inequalities.*** **Appetizers 2 A; Main Dish Objective 2 (Mathematical Relations) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**			
PO 1	• *Describe and use variables in a contextual situation*	**Appetizers 2 D; Main Dish Objective 2 (Mathematical Relations) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics**		

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PO 2	• *Evaluate an expression using substitution with four basic operations on whole numbers*	**Appetizers 2 D; 12 B; Main Dish Objectives 2 (Mathematical Relations) Lesson 4; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 3	• *Translate a written phrase to an algebraic expression and vice versa (words to symbols and symbols to words) (e.g., the quotient of x and y)*	**Appetizers 12 B; Main Dish Objective 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 4	• *Express a simple inequality from a contextual situation (e.g., Joe earns more than $5.00 an hour; therefore, x > 5)*	**Appetizers 2 D; Main Dish Objective 2 (Mathematical Relations) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
3M-E4	• ***Analyze functional relationships to explain how a change in one variable results in a change in another.***			
PO 2	• *Produce the rule (function) that explains the relationship (patterns) between the numbers when a change in the first variable affects the second variable (T-chart, two-row table, or input/output machine)*	**Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 4	• *Complete a T-chart for a given rule*	**Appetizers 2 B; 13 A; Main Dish Objectives 2 (Mathematical Relations) Lesson 2; 13 (Reasonableness) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**		

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3M-E5	• ***Use patterns and functions to represent and solve problems both formally and informally (e.g., measuring the height a ball bounces by dropping different balls from different starting heights).***			
PO 1	• *Solve a problem given a pattern both formally and informally (e.g., "In a patterned necklace, how many red and green beads do you need for a 20-inch necklace?")*	**Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
3M-E6	• ***Distinguish between linear and nonlinear functions through investigations.***			
PO 1	• *Distinguish between linear and nonlinear functions, given graphic examples*	**Appetizers 2 E; Main Dish Objective 2 (Mathematical Relations) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
3M-E7	• ***Solve simple linear equations and inequalities using a variety of methods (e.g., informal, formal, graphical) and a variety of manipulatives.***			
PO 1	• *Solve equations using*			
B	• *whole numbers with one variable - multiple steps*	**Appetizers 2 D; Main Dish Objective 2 (Mathematical Relations) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 2	• *Solve linear (first degree) equations using models/manipulatives, symbols and/or graphing in a one-step equation*			
PO 3	• *Graph given data points to represent a linear equation*			
B	• *in (x,y) form using all four quadrants of a coordinate grid*	**Appetizers 2 E; Main Dish Objective 2 (Mathematical Relations) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics**		

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3M-E8	• ***Develop, analyze, and explain methods for solving proportions.***			
PO 1	• *Describe how to solve a problem in context using a proportion*	**Appetizers 2 C; Main Dish Objective 2 (Mathematical Relations) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 2	• *Compare quantities using ratios*	**Appetizers 1 C; 2 C; Main Dish Objectives 1 (Number Concepts) Lesson 3; 2 (Mathematical Relations) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 3	• *Solve proportions using formal (e.g., cross product) or informal methods (e.g., diagrams, geometric models)*	**Appetizers 2 C; Main Dish Objective 2 (Mathematical Relations) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
	Geometry Students use geometric methods, properties, and relationships as a means to recognize, draw, describe, connect, and analyze shapes and representations in the physical world.			
4M-E1	• ***Visualize and draw two- and three-dimensional geometric figures with special attention to analyzing and reasoning informally about their properties (e.g., parallelism, perpendicularity, and congruence).***			
PO 1	• *Classify two-dimensional shapes and three-dimensional figures by their properties.*			
B	• *by properties*	**Appetizers 3 A; 11 B; Main Dish Objectives 3 (Geometry) Lesson 1; 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		

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PO 2	• *Identify the properties of geometric figures using appropriate terminology and vocabulary (e.g., parallelism, perpendicularity, and congruency)*			
B	• *three-dimensional figures (prisms)*	**Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 3	• *Draw or build two-dimensional shapes by applying significant properties of each (e.g., draw a rectangle with two sets of parallel sides and four right angles)*	**Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
4M-E2	• ***Apply geometric properties and relationships such as congruence, similarity, angle measure, parallelism, and perpendicularity to real-world situations.***			
PO 1	• *Design or draw a model (e.g., designing a playhouse, garden) that demonstrates basic geometric relationships, such as*			
B	• *all of the above (A) and proportionality and congruency*	**Appetizers 3 C; Main Dish Objective 3 (Geometry) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 3	• *Label corresponding, supplementary, and complementary angles*	**Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 4	• *Measure and label specified angles (e.g., alternate interior, obtuse, acute, right, corresponding…)*	**Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics**		

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4M-E3	• ***Perform elementary transformations (e.g., tessellations, flips, slides, rotations).***			
PO 2	• *Illustrate using concrete or pictorial models*			
B	• *reflections, rotations, and translations (e.g., tessellations)*	**Appetizers 3 C; 11 C; Main Dish Objectives 3 (Geometry) Lesson 3; 11 (Problem Solving) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 3	• *Draw or build a shape that*			
B	• *has two or more lines of symmetry*	**Appetizers 3 C; Main Dish Objective 3 (Geometry) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
4M-E4	• ***Represent and solve problems relating to size, shape, area, and volume using geometric models.***			
PO 1	• *Solve problems using given formulas for*			
B	• *area, perimeter/circumference of various circles/polygons*	**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**		
C	• *volume of prisms*	**Appetizers 4 E; Main Dish Objective 4 (Measurement) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 3	• *Draw or build a variety of shapes having the same perimeter and area*	**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**		

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	Measurement and Discrete Mathematics 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.			
5M-E1	• ***Estimate, make, and use measurements (U.S. customary and metric) to describe and make comparisons.***			
PO 3	• *Estimate measurements for both U.S. customary and metric units within either system*	**Appetizers 4 B & C; Main Dish Objective 4 (Measurement) Lessons 2 & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 4	• *Compare estimated measurements between U.S. customary and metric systems (e.g., a yard is about a meter)*	**Appetizers 4 B & C; Main Dish Objective 4 (Measurement) Lessons 2 & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
5M-E2	• ***Select and use appropriate units and tools to measure to the degree of accuracy required in a particular problem-solving situation.***			
PO 3	• *Measure to the appropriate degree of accuracy to solve problems (e.g., measuring to the nearest sixteenth of an inch or using ounces, measuring to the nearest millimeter or using liters)*	**Appetizers 4 B & C; Main Dish Objective 4 (Measurement) Lessons 2 & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
5M-E3	• ***Estimate, use, and describe measures of distance, perimeter, area, volume, capacity, weight, mass, and angles.***			
PO 2	• *Record estimates and measurements for*			
B	• *distance in scale drawings*			

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D	• *circumference*	**Appetizers 4 D; 11 B; Main Dish Objectives 4 (Measurement) Lesson 4; 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
E	• *area*	**Appetizers 4 E; 11 B; Main Dish Objectives 4 (Measurement) Lesson 5; 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
F	• *volume*	**Appetizers 4 E; Main Dish Objective 4 (Measurement) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
H	• *mass*	**Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
I	• *degrees of angles*	**Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
J	• *capacity*	**Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 3	• *Compare weight to mass and capacity to volume*			

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5M-E4	• ***Develop and use formulas and procedures to solve problems involving measurement.***			
PO 1	• *Develop a procedure or formula to calculate*			
B	• *area of polygons and circles*	**Appetizers 4 D; 11 B; Main Dish Objectives 4 (Measurement) Lesson 4; 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
C	• *surface area of rectangular prisms*	**Appetizers 4 E; 11 B; Main Dish Objectives 4 (Measurement) Lesson 5; 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
D	• *volume of rectangular prisms*	**Appetizers 4 E; Main Dish Objective 4 (Measurement) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 2	• *Use given formulas to find*			
B	• *circumference of a circle*	**Appetizers 4 D; 11 B; Main Dish Objectives 4 (Measurement) Lesson 4; 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
C	• *area of polygons and circles*	**Appetizers 4 D & E; Main Dish Objective 4 (Measurement) Lessons 4 & 5; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
D	• *surface area of rectangular prisms*	**Appetizers 4 E; 11 B; Main Dish Objectives 4 (Measurement) Lesson 5; 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		

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E	• *volume of prisms*	**Appetizers 4 E; Main Dish Objective 4 (Measurement) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
5M-E5	• ***Describe how a change in the linear dimension of an object affects its perimeter, area, and volume.***			
PO 2	• *Describe the effect on perimeter, area, and volume when one dimension of an object is altered*	**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**		
5M-E6	• ***Use calculators and computers to perform basic recursive and iterative processes.***			
PO 1	• *Solve a problem using the iterative process*			
B	• *designing a simple geometric pattern (e.g., design a basic quilt block; use it to generate the whole quilt)*			
PO 3	• *Complete the iterative sequence (e.g., given these terms and assuming a constant difference 21, -, -, -, -, -, 63, -, -, -)*	**Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
PO 4	• *Generate subsequent terms of a recursive sequence (e.g., 3, 3, 6, 9, 15, …)*	**Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		

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	Mathematical Structure/Logic Students use both inductive and deductive reasoning as they make conjectures and test the validity of arguments.			
6M-E1	• ***Use models to explain how ratios, proportions, and percents can be used to solve problems and apply reasoning processes, such as spatial reasoning and reasoning with proportions and graphs.***			
PO 1	• *Communicate how to solve problems involving ratios, proportions, and percents using concrete and illustrative models*	**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**		
6M-E2	• ***Construct, use, and explain algorithmic procedures for computing and estimating with whole numbers, fractions, decimals, and integers.***			
PO 1	• *Design a method with a series of defined steps for solving a problem; justify the method*	**Appetizers 11 A; Main Dish Objective 11 (Problem Solving) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
B	• *fractions, decimals, and integers*	**Appetizers 1 D & E; 6 C & D; 7 B & C; 9 E; 11 A; Main Dish Objectives 1 (Number Concepts) Lessons 4 & 5; 6 (Addition) Lessons 3 & 4; 7 (Subtraction) Lessons 2 & 3; 9 (Division) Lesson 5; 11 (Problem Solving) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
6M-E3	• ***Use if…then statements to construct valid arguments***			
PO 1	• *Construct simple valid arguments using if…then statements based on*			
B	• *geometric shapes*	**Appetizers 3 A; 11 B; Main Dish Objectives 3 (Geometry) Lesson 1; 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**		

Benchmark Number	*Benchmark* • *Instructional Targets*	*Gourmet Resource*	*Taught*	*Tested*
C	• *proportional reasoning in probability*	**Appetizers 5 A, C, & D; 11 D; Main Dish Objectives 5 (Probability/Statistics) Lessons 1, 3, & 4; 11 (Problem Solving) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics**		
D	• *syllogism*			
PO 2	• *Solve problems using deductive reasoning*	**All Appetizers; All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics**		