Virginia
Curricular Standards
Mathematics - Grade 6
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Benchmark Number	*Benchmark* • *Instructional Targets*	*Gourmet Resource*	*Taught*	*Tested*
	Domain: Number and Number Sense			
6.1	• *The student will identify representations of a given percent and describe orally and in writing the equivalence relationship between fractions, and percents.*	**Appetizers 1 C; 2 C Main Dish Objective 1 (Number Concepts) Lesson 3; 2 (Mathematical Relations); Lesson 3; Application 3; Final Tests; Reasonableness Problems; Journal Topics**		
6.2	• *The student will describe and compare two sets of data using ratios and will use appropriate notations such as a/b, a to b, and a:b.*	**Appetizers 1 E; 2 C; Main Dish Objective 1 (Number Concepts) Lesson 5; 2 (Mathematical Relations); Lesson 3; Applications 3 & 5; Final Tests; Reasonableness Problems; Journal Topics**		
6.3	• *The student will explain orally and in writing the concepts of prime and composite numbers*	**Appetizers 1 D; Main Dish Objective 1 (Number Concepts) Lesson 4; Application 1; Final Tests; Reasonableness Problems; Journal Topics**		
6.4	• *The student will compare and order whole numbers, fractions, and decimals, using concrete materials, drawings or pictures, and mathematical symbols.*	**Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1; Application 1; Final Tests; Reasonableness Problems; Journal Topics**		
6.5	• *The student will identify and represent integers on a number line.*	**Appetizers 2 F; Main Dish Objective 2 (Mathematical Relations) Lesson 6; Application 6; Final Tests; Reasonableness Problems; Journal Topics**		

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	Domain: Computation and Estimation			
6.6	• *The student will* * *solve problems that involve addition, subtraction, and/or multiplication with fractions and mixed numbers, with and without fractions and mixed numbers, with and without regrouping, that include like and unlike denominators of 12 or less and express their answers in simplest form; and* * *find the quotient, given a dividend expressed as a decimal through thousandths and a divisor expressed as a decimal to thousandths with exactly one non-zero digit. For divisors with more than one non-zero digit, estimation and calculators will be used.*	**Appetizers 1 D; 6 C; 7 B; 9 E & F; 10 G; 11 A; Main Dish Objective 1 (Number Concepts) Lesson 4; 6 (Addition); Lesson 3; 7 (Subtraction); Lesson 2; 9 (Division); Lessons 5 & 6; 10 (Estimation); Lesson 7; Application 7; 11 (Solution Strategies); Lesson 1; Applications 1, 2, 3, 4, 5, & 6; Final Tests; Reasonableness Problems; Journal Topics**		
6.7	• *The student will use estimation strategies to solve multi-step practical problems involving whole numbers, decimals, and fractions.*	**Appetizers 1 B; 7 D; 9 F; 10 A; Main Dish Objective 1 (Number Concepts) Lesson 2; 7 (Subtraction); Lesson 4; 9 (Division); Lesson 6; 10 (Estimation); Lesson 1; Applications 1, 2, 4, & 6; Final Tests; Reasonableness Problems; Journal Topics**		
6.8	• *The student will solve multi-step consumer application problems involving fractions and decimals and present data and conclusion in paragraphs, tables, or graphs.*	**Appetizers 6 C & D; 7 D; 10 F & G; Main Dish Objective 6 (Addition); Lessons 3 & 4; 7 (Subtraction); Lesson 4; 10 (Estimation); Lessons 6 & 7; Applications 3; 4; 6; & 7; Final Tests; Reasonableness Problems; Journal Topics**		

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	Domain: Measurement			
6.9	• *The student will compare and convert units of measures for length, weight/mass, and volume within the U.S. Customary system and within the metric system and estimate conversions between units in each system:* * *length-part of an inch (1/2, 1/4, and 1/8), inches, feet, yards, miles, millimeters, centimeters, meters, and kilometers;* * *weight/mass-ounces, pounds, tons, grams, and kilograms;* * *liquid volume-cups, pints, quarts, gallons, millimeters, and liters; and* * *area-square units.* * *The intent of this standard is for students to make "ballpark" comparisons and not to memorize conversion factors between U.S. and metric units.*	**Appetizers 4 B, C, D, & E; 11 B; Main Dish Objective 4 (Measurement); Lessons 2, 3, 4, & 5; Applications 2, 3, 4, & 5; 11 (Solution Strategies); Lesson 2; Application 2; Final Tests; Reasonableness Problems; Journal Topics**		
6.10	• *The student will estimate and then determine length, weight/mass, area, and liquid volume/capacity, using standard and nonstandard units of measure.*			
6.11	• *The student will determine if a problem situation involving polygons of four sides or less represent the application of perimeter or area and apply the appropriate formula.*	**Appetizers 3 A; 4 D & E; Main Dish Objective 3 (Geometric Properties); Lesson 1; 4 (Measurement); Lessons 4 & 5; Applications 1, 4, & 5; Final Tests; Reasonableness Problems; Journal Topics**		
6.12	• *The student will create and solve problems by finding the circumference and/or area of a circle when given the diameter or radius. Using concrete materials or computer models, the student will derive approximations for pi from measurements for circumference and diameter.*	**Appetizers 4 D; Main Dish Objective 4 (Measurement); Lesson 4 ; Applications 4; Application 4; Final Tests; Reasonableness Problems; Journal Topics**		

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6.13	• *The student will estimate angle measures using 45 degrees, 90 degrees, and 180 degrees as referents and use the appropriate tools to measure the given angles.*	**Appetizers 3 D; 11 B; Main Dish Objective 3 (Geometric Properties); Lesson 4; 11 (Solution Strategies); Lesson 2; Applications 2 & 4; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom**		
	Domain: Geometry			
6.14	• *The student will identify, classify, and describe the characteristics of plane figures including similarities and differences.*	**Appetizers 3 A & C; Main Dish Objective 3 (Geometric Properties); Lessons 1 & 3; Applications 1 & 3; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom**		
6.15	• *The student will determine congruence of segments, angles, and polygons by direct comparison, given their attributes. Examples of non congruent and congruent figures will be included.*	**Appetizers 3 C & D; 11 C; Main Dish Objective 3 (Geometric Properties); Lessons 3 & 4; 11 (Solution Strategies); Lesson 3; Applications 3 & 4; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom**		
6.16	• *The student will construct the perpendicular bisector of a line segment and an angle bisector, using a compass and straightedge.*			
6.17	• *The student will sketch, construct models, and classify rectangular prisms, cones, cylinders, and pyramids.*	**Appetizers 3 A; Main Dish Objective 3 (Geometric Properties); Lesson 1; Application 1; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom**		

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	Domain: Probability and Statistics			
6.18	• *The student, given a problem situation, will collect, analyze, display, and interpret data in a variety of graphical methods, including line, bar, and circle graphs and stem-and-leaf and box-and-whisker plots. Circle graphs will be limited to halves, fourths, and eighths.*	**Appetizers 5 A & D; 11 D; 12 C; Main Dish Objective 5 (Probability/Statistics); Lessons 1 & 2, 11 (Solution Strategies); Lesson 4; 12 (Mathematical Representation); Lesson 3; Applications 1, 2, 3, & 4; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom**		
6.19	• *The student will describe the mean, median, and mode as measures of central tendency and determine their meaning for a set of data.*	**Appetizers 5 E; Main Dish Objective 5 (Probability/Statistics); Lesson 5; Application 5; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom**		
6.20	• *The student will determine and interpret the probability of an event occurring from a given sample space.*	**Appetizers 5 A & C; Main Dish Objective 5 (Probability/Statistics); Lessons 1 & 3; Applications 1 & 3; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom**		
	Domain: Patterns, Functions, and Algebra			
6.21	• *The student will recognize, describe, and extend a variety of numerical and geometric patterns.*	**Appetizers Appetizers 2 B & D; 12 A; Main Dish Objective 2 (Mathematical Relations); Lesson 1; Applications 1, 2, & 4; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom**		

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6.22	• *The student will investigate and describe concepts of exponents, perfect squares, and square roots, using calculators to develop the exponential patterns. Patterns will include zero and negative exponents, which lead to the idea of scientific notation. Investigations will include the binary number system as an application of exponents and patterns.*			
6.23	• *The student will* * *model and solve algebraic equations, using concrete materials; and* * *solve one-step linear equations in one variable, involving whole number coefficients and positive rational solutions.*	**Appetizers 1 A; 2 D; Main Dish Objective 1; (Number Concepts); Lesson 1; 2 (Mathematical Relations); Lesson 4, Applications 1 & 4; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom**		