

Indiana
Curricular Standards
Mathematics - Grade 2
Correlations with Gourmet Curriculum Press, Inc.©
1.800.900.2290

Benchmark Number	Benchmark • Teaching Targets	Gourmet Resource	Tested	Taught
	Domain: Number Sense			
	<i>Students understand the relationships among numbers, quantities, and place value in whole numbers* up to 100. They understand that fractions may refer to parts of a set* and parts of a whole.</i>			
2.1.1	<ul style="list-style-type: none"> Count by ones, twos, fives, and tens to 100. <p><i>Example: Count 74 pencils by groups of tens and twos.</i></p>	Appetizers 1 C; 2 B; Main Dish Objectives 1 (Number Concepts) Lesson 3; 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.1.2	<ul style="list-style-type: none"> Identify the pattern of numbers in each group of ten, from tens through nineties. <p><i>Example: Where on a hundreds chart are the numbers 12, 22, 32, etc.?</i></p>	Appetizers 2 B & C; Main Dish Objective 2 (Mathematical Relations) Lessons 2 & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.1.3	<ul style="list-style-type: none"> Identify numbers up to 100 in various combinations of tens and ones. <p><i>Example: $32 = 3 \text{ tens} + 2 \text{ ones} = 2 \text{ tens} + 12 \text{ ones}$, etc.</i></p>	Appetizers 1 B; 6 A; Main Dish Objectives 1 (Number Concepts) Lesson 2; 6 (Addition) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.1.4	<ul style="list-style-type: none"> Name the number that is ten more or ten less than any numbers 10 through 90. <p><i>Example: Name the number ten more than 54.</i></p>	Appetizers 1 C; 2 B; Main Dish Objectives 1 (Number Concepts) Lesson 3; 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		

Benchmark Number	Benchmark • Teaching Targets	Gourmet Resource	Tested	Taught
2.1.5	<ul style="list-style-type: none"> Compare whole numbers up to 100 and arrange them in numerical order. <p><i>Example:</i> Put the numbers in order of size: 95, 28, 42, 31.</p>	Appetizers 1 A; Main Dish Objectives 1 (Number Concepts) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.1.6	<ul style="list-style-type: none"> Match the number names first, second, third, etc. with an ordered set of up to 100 items. <p><i>Example:</i> Identify the seventeenth letter of the alphabet.</p>	Appetizers 1 E; Main Dish Objectives 1 (Number Concepts) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.1.7	<ul style="list-style-type: none"> Identify odd and even numbers up to 100. <p><i>Example:</i> Find the odd numbers in this set: 44, 31, 100, 57, 28.</p>	Appetizers 1 C; Main Dish Objectives 1 (Number Concepts) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.1.8	<ul style="list-style-type: none"> Recognize fractions as parts of a whole or parts of a group (up to 12 parts). <p><i>Example:</i> Divide a cardboard rectangle into 8 equal pieces. Shade 5 pieces and write the fraction for the shaded part.</p>	Appetizers 1 D; Main Dish Objectives 1 (Number Concepts) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.1.9	<ul style="list-style-type: none"> Recognize, name, and compare the unit fractions: $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{6}$, $\frac{1}{8}$, $\frac{1}{10}$, and $\frac{1}{12}$. <p><i>Example:</i> Which is larger, $\frac{1}{3}$ or $\frac{1}{6}$? Explain your answer.</p>	Appetizers 1 D; Main Dish Objectives 1 (Number Concepts) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.1.10	<ul style="list-style-type: none"> Know that, when all fractional parts are included, the result is equal to the whole and to one. <p><i>Example:</i> What is another way of saying six sixths? Explain your answer.</p>	Appetizers 1 D; Main Dish Objectives 1 (Number Concepts) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		

*whole numbers: 0, 1, 2, 3, etc.

*set: collection of objects, numbers, etc.

Benchmark Number	Benchmark • Teaching Targets	Gourmet Resource	Tested	Taught
2.1.11	<ul style="list-style-type: none"> Collect and record numerical data in systematic ways. <p><i>Example: Measure the hand span in whole centimeters of each student in your class. Keep a record of the answers they give you.</i></p>	Appetizers 4 A & B; Main Dish Objective 4 (Measurement) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.1.12	<ul style="list-style-type: none"> Represent, compare, and interpret data using tables, tally charts, and bar graphs. <p><i>Example: Make a tally of your classmates' favorite colors and draw a bar graph. Name the color that is most popular and the color that is the favorite of the fewest people.</i></p>	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		
Domain: Computation				
<i>Students solve simple problems involving addition and subtraction of numbers up to 100.</i>				
2.2.1	<ul style="list-style-type: none"> Model addition of numbers less than 100 with objects and pictures. <p><i>Example: Use blocks to find the sum of 26 and 15.</i></p>	Appetizers 6 A; Main Dish Objective 6 (Addition) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.2.2	<ul style="list-style-type: none"> Add two whole numbers less than 100 with and without regrouping. <p><i>Example: $36 + 45 = ?$</i></p>	Appetizers 6 A; Main Dish Objective 6 (Addition) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.2.3	<ul style="list-style-type: none"> Subtract two whole numbers less than 100 without regrouping. <p><i>Example: $86 - 55 = ?$</i></p>	Appetizers 7 A; Main Dish Objective 7 (Subtraction) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.2.4	<ul style="list-style-type: none"> Understand and use the inverse relationship between addition and subtraction. <p><i>Example: Understand that $89 - 17 = 72$ means that $72 + 17 = 89$.</i></p>	Appetizers 2 A & C; Main Dish Objective 2 (Mathematical Relations) Lessons 1 & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		

Benchmark Number	Benchmark • Teaching Targets	Gourmet Resource	Tested	Taught
2.2.5	<ul style="list-style-type: none"> Use estimation to decide whether answers are reasonable in addition problems. <p><i>Example:</i> Your friend says that $13 + 24 = 57$. Without solving, explain why you think the answer is wrong.</p>	Appetizers 10 A; Main Dish Objective 10 (Estimation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.2.6	<ul style="list-style-type: none"> Use mental arithmetic to add or subtract 0, 1, 2, 3, 4, 5, or 10 with numbers less than 100. <p><i>Example:</i> In a game, Mia and Noah are making addition problems. They make two two-digit numbers out of the four given numbers 1, 2, 3, and 4. Each number is used exactly once. The winner is the one who makes two numbers whose sum is the largest. Mia had 24 and 31; Noah had 21 and 43. Who won the game? How do you know? Show a way to beat both of them.</p>	Appetizers 2 C; 6 A; 7 A; Main Dish Objectives 2 (Mathematical Relations) Lesson 3; 6 (Addition) Lesson 1; 7 (Subtraction) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
Domain: Algebra and Functions				
<i>Students model, represent, and interpret number relationships to create and solve problems involving addition and subtraction.</i>				
2.3.1	<ul style="list-style-type: none"> Relate problem situations to number sentences involving addition and subtraction. <p><i>Example:</i> You have 13 pencils and your friend has 12 pencils. You want to know how many pencils you have altogether. Write a number sentence for this problem and use it to find the total number of pencils.</p>	Appetizers 6 A; 7 A; 11 A; Main Dish Objectives 6 (Addition) Lesson 1; 7 (Subtraction) Lesson 1; 11 (Problem Solving) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.3.2	<ul style="list-style-type: none"> Use the commutative* and associative* rules for addition to simplify mental calculations and to check results. <p><i>Example:</i> Add the numbers 5, 17, and 13 in this order. Now add them in the order 17, 13, and 5. Which was easier? Why?</p>	Appetizers 2 A; Main Dish Objective 2 (Mathematical Relations) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		

*commutative rule: the order when adding numbers makes no difference (e.g., $5 + 3 = 3 + 5$). Note that this rule is not true for subtraction.

*associative rule: the grouping when adding numbers makes no difference (e.g., in $5 + 3 + 2$, adding 5 and 3 and then adding 2 is the same as 5 added to $3 + 2$). Note that this rule is not true for subtraction.

Benchmark Number	Benchmark • Teaching Targets	Gourmet Resource	Tested	Taught
2.3.3	<ul style="list-style-type: none"> Recognize and extend a linear pattern by its rules. <p><i>Example:</i> One horse has 4 legs, two horses have 8 legs, and so on. Continue the pattern to find how many legs five horses have.</p>	Appetizers 2 B; 12 A & B; Main Dish Objectives 2 (Mathematical Relations) Lesson 2; 12 (Mathematical Representation) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.3.4	<ul style="list-style-type: none"> Create, describe, and extend number patterns using addition and subtraction. <p><i>Example:</i> What is the next number: 23, 21, 19, 17,...? How did you find your answer?</p>	Appetizers 2 B & C; 11 A; Main Dish Objectives 2 (Mathematical Relations) Lessons 2 & 3; 11 (Problem Solving) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
Domain: Geometry				
<i>Students identify and describe the attributes of common shapes in the plane and of common objects in space.</i>				
2.4.1	<ul style="list-style-type: none"> Construct squares, rectangles, triangles, cubes, and rectangular prisms* with the appropriate materials. <p><i>Example:</i> Use blocks to make a rectangular prism.</p>	Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.4.2	<ul style="list-style-type: none"> Describe, classify, and sort plane and solid geometric shapes (triangle, square, rectangle, cube, rectangular prism) according to the number and the shapes of faces*, and the number of edges and vertices*. <p><i>Example:</i> How many corners does a cube have?</p>	Appetizers 2 D; 3 A; Main Dish Objectives 2 (Mathematical Relations) Lesson 4; 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.4.3	<ul style="list-style-type: none"> Investigate and predict the result of putting together and taking apart two- and three-dimensional shapes. <p><i>Example:</i> Use objects or a drawing program to find other shapes that can be made from a rectangle and a triangle. Use sketches or a drawing program to show several ways that a rectangle can be divided into three triangles.</p>	Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		

Benchmark Number	Benchmark • Teaching Targets	Gourmet Resource	Tested	Taught
2.4.4	<ul style="list-style-type: none"> Identify congruent* two-dimensional shapes in any position. <i>Example:</i> In a collection of rectangles, pick out those that are the same shape and size. 	Appetizers 3 C; Main Dish Objective 3 (Geometry) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.4.5	<ul style="list-style-type: none"> Recognize geometric shapes and structures in the environment and specify their locations. <i>Example:</i> Look for combinations of shapes in the buildings around you. 	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
Domain: Measurement				
<i>Students understand how to measure length, temperature, capacity, weight and time in standard units.</i>				
2.5.1	<ul style="list-style-type: none"> Measure and estimate length to the nearest inch, foot, yard, centimeter, and meter. <i>Example:</i> Measure the length of your classroom to the nearest foot. 	Appetizers 4 A; 10 A; Main Dish Objectives 4 (Measurement) Lesson 1; 10 (Estimation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.5.2	<ul style="list-style-type: none"> Describe the relationships among inch, foot, and yard. Describe the relationship between centimeter and meter. <i>Example:</i> How many inches are in a yard? 	Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.5.3	<ul style="list-style-type: none"> Decide which unit of length is most appropriate in a given situation. <i>Example:</i> Would you use yards or inches to measure the length of your school books? Explain your answer. 	Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		

*rectangular prism: box with 6 rectangles for sides, like a cereal box

*face: flat side, like the front of a cereal box

*vertices: corners (vertex: corner)

*congruent: same shape and size, like the front and back of a cereal box

Benchmark Number	Benchmark • Teaching Targets	Gourmet Resource	Tested	Taught
2.5.4	<ul style="list-style-type: none"> Estimate area and use a given object to measure the area of other objects. <p>Example: Make a class estimate of the number of sheets of notebook paper that would be needed to cover the classroom door. Then use measurements to compute the area of the door.</p>			
2.5.5	<ul style="list-style-type: none"> Estimate and measure capacity using cups and pints. <p>Example: Make a reasonable estimate of the number of pints a juice pitcher holds.</p>	Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.5.6	<ul style="list-style-type: none"> Estimate weight and use a given object to measure the weight of other objects. <p>Example: About how many jellybeans will you need to put on one side of a balance scale to balance with a box of chalk? Count out the number of jellybeans that you guessed would be needed and see whether your estimate was close. Explain the results of your estimation and weighing.</p>	Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.5.7	<ul style="list-style-type: none"> Recognize the need for a fixed unit of weight. <p>Example: Estimate the number of paper clips needed to balance with a box of chalk. Will it be the same as the number of jellybeans? Explain your answer.</p>	Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.5.8	<ul style="list-style-type: none"> Estimate temperature. Read a thermometer in Celsius and Fahrenheit. <p>Example: What do you think the temperature is today? Look at the thermometer to check.</p>	Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.5.9	<ul style="list-style-type: none"> Tell time to the nearest quarter hour, be able to tell five-minute intervals, and know the difference between a.m. and p.m. <p>Example: When does your favorite TV program start?</p>	Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		

Benchmark Number	Benchmark • Teaching Targets	Gourmet Resource	Tested	Taught
2.5.10	<ul style="list-style-type: none"> Know relationships of time: seconds in a minute, minutes in an hour, hours in a day, days in a week, and days, weeks, and months in a year. <p><i>Example:</i> How many days are in a year?</p>	Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.5.11	<ul style="list-style-type: none"> Find the duration of intervals of time in hours. <p><i>Example:</i> Your trip began at 9:00 a.m. and ended at 3:00 p.m. How long were you traveling?</p>	Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.5.12	<ul style="list-style-type: none"> Find the value of a collection of pennies, nickels, dimes, quarters, half-dollars, and dollars. <p><i>Example:</i> You have 3 pennies, 4 nickels, and 2 dimes. How much money do you have? Explain your answer.</p>	Appetizers 6 B; 7 B; Main Dish Objectives 6 (Addition) Lesson 2; 7 (Subtraction) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
Domain: Problem Solving				
<i>Students make decisions about how to set up a problem.</i>				
2.6.1	<ul style="list-style-type: none"> Choose the approach, materials, and strategies to use in solving problems. <p><i>Example:</i> Solve the problem: "Count the number of squares on the surface of a cube. Put two cubes together and count the number of visible squares. Repeat this step with 3, 4, 5, ... cubes in a line. Find a rule for the number of squares." Use blocks to set up the problem.</p>	Appetizers 11 A; Main Dish Objective 11 (Problem Solving) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.6.2	<ul style="list-style-type: none"> Use tools such as objects or drawings to model problems. <p><i>Example:</i> In the first example, place blocks together. Each time you add a block, count the number of squares and record it.</p>	Appetizers 1 D; 2 B & C; Main Dish Objectives 1 (Number Concepts) Lesson 4; 2 (Mathematical Relations) Lessons 2 & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		

Benchmark Number	Benchmark • Teaching Targets	Gourmet Resource	Tested	Taught
	<i>Students solve problems and justify their reasoning.</i>			
2.6.3	<ul style="list-style-type: none"> • <i>Explain the reasoning used and justify the procedures selected in solving a problem.</i> <p><i>Example: In the first example, notice that the number goes up by 4 each time a block is added. Observe that, as you add each cube, you gain 6 squares but lose 2 where the blocks are joined.</i></p>	All Appetizers; All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.6.4	<ul style="list-style-type: none"> • <i>Make precise calculations and check the validity of the results in the context of the problem.</i> <p><i>Example: In the first example, check your results by setting out 10 blocks and counting the number of squares on each long side and then the two at the ends. See how this fits with your rule of adding 4 each time.</i></p>	All Appetizers; All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2.6.5	<ul style="list-style-type: none"> • <i>Understand and use connections between two problems.</i> <p><i>Example: Use the method of the problem you have just solved to find what happens when the cubes are not all in a line.</i></p>			