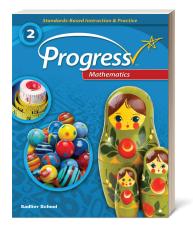
SADLIER

Progress Mathematics

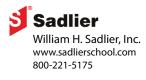


Aligned to the

College and Career Ready Indiana Academic Standards Mathematics: Grade 2

Contents

- 2 Number Sense
- 3 Computation and Algebraic Thinking
- 4 Geometry
- 5 Measurement
- 6 Data Analysis



Number Sense

MATHEMATICS STANDARDS & DESCRIPTION, GRADE 2	SADLIER PROGRESS MATHEMATICS, GRADE 2	
2.NS.1: Count by ones, twos, fives, tens, and hundreds up to at least 1,000 from any given number.	Lesson 4	Odd and Even Numbers—pp. 34–41 Understand: Even numbers of objects make pairs Understand: Odd numbers of objects make pairs with 1 left over Understand: Skip-count by 2s to tell if a number is even or odd
	Lesson 7	Skip Count by 5s, 10s, and 100s—pp. 64–71 Understand: Skip-counting by 5s Understand: Skip-counting by 10s
2.NS.2: Read and write whole numbers up to 1,000. Use words, models, standard form and expanded form to represent and show equivalent forms of whole numbers up to 1,000.	Lesson 8	Read and Write Numbers to 1,000—pp. 72–79 Understand: Place-value models can help you read and write numbers
2.NS.3: Plot and compare whole numbers up to 1,000 on a number line.	Lesson 22	*Related content Number Line Diagrams—pp. 194–201 Understand: Use a number line to add Understand: Use a number line to subtract Understand: Use a number line with 2-digit numbers
2.NS.4: Match the ordinal numbers first, second, third, etc., with an ordered set up to 30 items.		Not addressed at this level.
with an ordered set up to 50 items.		*See Kindergarten, Lesson 15, "Ordinal Numbers"
2.NS.5: Determine whether a group of objects (up to 20) has an odd or even number of members (e.g., by placing that number of objects in two groups of the same size and recognizing that for even numbers no object will be left over and for odd numbers one object will be left over, or by pairing objects or counting them by 2s).	Lesson 4	Odd and Even Numbers—pp. 34–41 Understand: Even numbers of objects make pairs Understand: Odd numbers of objects make pairs with 1 left over Understand: Skip-count by 2s to tell if a number is even or odd
2.NS.6: Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones (e.g., 706 equals 7 hundreds, 0 tens, and 6 ones). Understand that 100 can be thought of as a group of ten tens — called a "hundred." Understand that the numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones).	Lesson 6	 Place Value: Hundreds, Tens, and Ones—pp. 56–63 Understand: Models can show that 10 tens is the same as 1 hundred Understand: A place-value chart shows the value of each digit in a number
2.NS.7: Use place value understanding to compare two three- digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons.	Lesson 9	Compare Numbers—pp. 80–87 Understand: Using place-value models to compare two numbers Understand: Using place-value charts to compare two numbers Understand: Comparing numbers with the same digits in the same places

Computation and Algebraic Thinking

MATHEMATICS STANDARDS & DESCRIPTION, GRADE 2	SADLIER PROC	SRESS MATHEMATICS, GRADE 2
2.CA.1: Add and subtract fluently within 100.	Lesson 3	Addition and Subtraction Facts to 20 (fluency)—pp. 26–33 Understand: Make a ten to help you add Understand: Make a ten to help you subtract Understand: Addition and subtraction are related
	Lesson 10	Add Two-Digit Numbers—pp. 88–95 Understand: Using place value to add two 2-digit numbers Understand: Using properties to add two 2-digit numbers
	Lesson 11	Subtract Two-Digit Numbers—pp. 96–103 Understand: Subtracting 2-digit numbers using place- value models Understand: Subtracting 2-digit numbers using place- value charts
	Lesson 12	Add More than Two Numbers—pp. 104–111 Understand: You can add three 2-digit numbers using place value Understand: Grouping addends to add three 2-digit numbers
2.CA.2: Solve real-world problems involving addition and subtraction within 100 in situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using drawings and equations with a symbol for the unknown	Lesson 1	Problem Solving: Addition—pp. 10–17 Understand: Use drawings and equations to solve addition word problems Understand: Write an equation to solve an addition word problem
number to represent the problem). Use estimation to decide whether answers are reasonable in addition problems.	Lesson 2	Problem Solving: Subtraction—pp. 18–25 Understand: Use drawings and equations to solve subtraction word problems Understand: Use related addition and subtraction equations to solve a subtraction word problem
2.CA.3: Solve real-world problems involving addition and subtraction within 100 in situations involving lengths that are given in the same units (e.g., by using drawings, such as drawings of rulers, and equations with a symbol for the unknown number to represent the problem).	Lesson 21	Add and Subtract Lengths—pp. 186–193 Understand: You can add lengths to solve a problem Understand: You can subtract lengths to solve a problem
2.CA.4: Add and subtract within 1000, using models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; describe the strategy and explain the reasoning used. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones, and that sometimes it is necessary to compose or decompose tens or hundreds.	Lesson 13	Add Three-Digit Numbers within 1,000—pp. 112–119 Understand: Adding 3-digit numbers without regrouping Understand: Adding 3-digit numbers by regrouping ones Understand: Adding two 3-digit numbers with regrouping tens to make a hundred
	Lesson 14	Subtract Three- Digit Numbers within 1,000— pp. 120–127 Understand: Subtracting two 3-digit numbers without regrouping Understand: Subtracting two 3-digit numbers regrouping a ten Understand: Subtracting two 3-digit numbers regrouping a hundred

Computation and Algebraic Thinking

MATHEMATICS STANDARDS &	& DESCRIPTION, GRADE 2
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2.CA.5: Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal groups.

2.CA.6: Show that the order in which two numbers are added (commutative property) and how the numbers are grouped in addition (associative property) will not change the sum. These properties can be used to show that numbers can be added in any order.

2.CA.7: Create, extend, and give an appropriate rule for number patterns using addition and subtraction within 1000.

SADLIER PROGRESS MATHEMATICS, GRADE 2	
Lesson 5	Arrays—pp. 42–55 Understand: Use repeated addition to find how many in all Understand: You arrange things in equal rows and equal columns to make an array
Lesson 10	Add Two-Digit Numbers—pp. 88–95 Understand: Using place value to add two 2-digit numbers (order of addends, p. 89) Understand: Using properties to add two 2-digit numbers
Lesson 15	Mentally Add and Subtract 10 or 100—pp. 128–145 Understand: When you add or subtract 10, the digit in the tens place changes Understand: When you add or subtract 100, the digit in the hundreds place changes

Geometry

MATHEMATICS STANDARDS & DESCRIPTION, GRADE 2	SADLIER PROGRESS MATHEMATICS, GRADE 2	
2.G.1: Identify, describe, and classify two- and three- dimensional shapes (triangle, square, rectangle, cube, right rectangular prism) according to the number and shape of faces and the number of sides and/or vertices. Draw two- dimensional shapes.	Lesson 28	Identify and Draw Shapes—pp. 248–255 Understand: Use sides and angles to identify a flat shape Understand: Use sides and angles to identify special quadrilaterals *No three-dimensional shapes at this level.
2.G.2: Create squares, rectangles, triangles, cubes, and right rectangular prisms using appropriate materials.	Lesson 28	Identify and Draw Shapes—pp. 248–255 Understand: Use sides and angles to identify a flat shape Understand: Use sides and angles to identify special quadrilaterals
		*No three-dimensional shapes at this level.
2.G.3: Investigate and predict the result of composing and decomposing two- and three- dimensional shapes.	Lesson 30	Equal Shares—pp. 264–271 Understand: Make equal shares of a rectangle Understand: Recognize and describe an equal share
		*No three-dimensional shapes at this level.
2.G.4: Partition a rectangle into rows and columns of same-size (unit) squares and count to find the total number of same-size squares.	Lesson 29	Partition Rectangles into Same-Size Squares—pp. 256–263 Understand: Identify rows and columns in a rectangle made up of same-size squares Understand: Count to find the number of same-size squares in a rectangle
2.G.5: Partition circles and rectangles into two, three, or four equal parts; describe the shares using the words halves, thirds, half of, a third of, etc.; and describe the whole as two halves, three thirds, four fourths. Recognize that equal parts of identical wholes need not have the same shape.	Lesson 30	Equal Shares — pp. 264–271 Understand: Make equal shares of a rectangle Understand: Recognize and describe an equal share

Measurement

MATHEMATICS STANDARDS & DESCRIPTION, GRADE 2	SADLIER PROGRESS MATHEMATICS, GRADE 2	
2.M.1: Describe the relationships among inch, foot, and yard. Describe the relationship between centimeter and meter.	Lesson 16	Measure Length: Inches and Feet—pp. 146– 153 Understand: You can use an inch ruler to find how long an object is Understand: You can measure objects using a yardstick or a tape measure
	Lesson 17	Measure Length: Centimeters and Meters— pp. 154–161 Understand: You can use a centimeter ruler to find how long an object is Understand: Use a meter stick to measure longer objects
	Lesson 18	Use Different Units to Measure Length—pp. 162–169 Understand: You can use inches and feet to measure the same object Understand: You can use inches and centimeters to measure the same object
	Lesson 20	Compare Lengths—pp. 178–185 Understand: You can find how much longer one object is than another Understand: You can find how much shorter one object is than another
2.M.2: Estimate and measure the length of an object by selecting and using appropriate tools, such as rulers, yardsticks, meter sticks, and measuring tapes to the nearest inch, foot, yard, centimeter and meter.	Lesson 16	Measure Lengths: Inches and Feet—pp. 146– 153 Understand: You can use an inch ruler to find how long an object is Understand: You can measure objects using a yardstick or a tape measure
	Lesson 19	Estimate Length—pp. 170–177 Understand: You can estimate length in inches Understand: You can estimate length in centimeters
2.M.3: Understand that the length of an object does not change regardless of the units used. Measure the length of an object twice using length units of different lengths for the two measurements. Describe how the two measurements relate to the size of the unit chosen.	Lesson 18	Use Different Units to Measure Length—pp. 162–169 Understand: You can use inches and feet to measure the same object Understand: You can use inches and centimeters to measure the same object
2.M.4: Estimate and measure volume (capacity) using cups and pints.		Not addressed at this level (see Gr. 3).
2.M.5: Tell and write time to the nearest five minutes from analog clocks, using a.m. and p.m. Solve real-world problems involving addition and subtraction of time intervals on the hour or half hour.	Lesson 23	Tell and Write Time —pp. 202–209 Understand: Read time to the nearest five minutes Understand: Read morning time and afternoon time
		*No addition or subtraction of time intervals at this level.
2.M.6: Describe relationships of time, including: seconds in a minute; minutes in an hour; hours in a day; days in a week; and days, weeks, and months in a year.	Lesson 23	Tell and Write Time pp. 202–209 Understand: Read time to the nearest five minutes Understand: Read morning time and afternoon time
		*No describing relationships of time at this level.
2.M.7: Find the value of a collection of pennies, nickels, dimes, quarters and dollars.	Lesson 24	Money—pp. 210–217 Understand: Count on to find the total value of a group of coins Understand: Find the value of a group of bills

Data Analysis

MATHEMATICS STANDARDS & DESCRIPTION, GRADE 2

2.DA.1: Draw a picture graph (with single-unit scale) and a bar graph (with single-unit scale) to represent a data set with up to four choices (What is your favorite color? red, blue, yellow, green). Solve simple put-together, take-apart, and compare problems using information presented in the graphs.

SADLIER PROG	ress Mathematics, Grade 2
Lesson 26	Picture Graphs—pp. 226–233 Understand: Read a picture graph Understand: Make a picture graph
Lesson 27	Bar Graphs — pp. 234–247 Understand: Read a bar graph Understand: Make a bar graph