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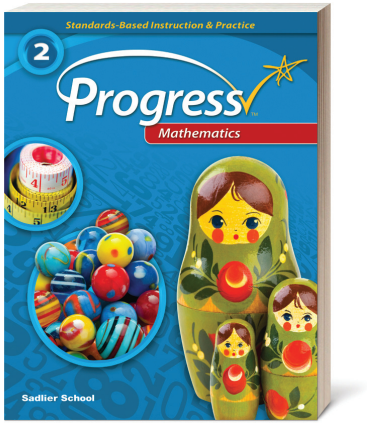
Progress Mathematics

Standards-Based Instruction & Practice



Aligned to the 2015 Revised

Alabama Course of Study: Mathematics

Grade 2

Contents

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Operations and Algebraic Thinking

Grade 2 Standards	Sadlier Progress Mathematics, Grade 2
Represent and solve problems involving addition and subtraction.	
1. Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem. [2-OA1]	**Lesson 1** **Problem Solving: Addition**—pp. 10–17 **Lesson 2** **Problem Solving: Subtraction**—pp. 18–25
Add and subtract within 20.	
2. Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers. [2-OA2]	**Lesson 3** **Addition and Subtraction Facts to 20** (fluency)—pp. 26–33
Work with equal groups of objects to gain foundations for multiplication.	
3. Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s; write an equation to express an even number as a sum of two equal addends. [2-OA3]	**Lesson 4** **Odd and Even Numbers**—pp. 34–41
4. 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 addends. [2-OA4]	**Lesson 5** **Arrays**—pp. 42–55

Number and Operations in Base Ten

Grade 2 Standards	Sadlier Progress Mathematics, Grade 2
Understand place value.	
5. 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 the following as special cases: [2-NBT1]	
a. 100 can be thought of as a bundle of ten tens — called a "hundred." [2-NBT1a]	**Lesson 6** **Place Value: Hundreds, Tens, and Ones**—pp. 56–63
b. 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). [2-NBT1b]	**Lesson 6** **Place Value: Hundreds, Tens, and Ones**—pp. 56–63

Number and Operations in Base Ten

Grade 2 Standards		Sadlier Progress Mathematics, Grade 2	
6.	Count within 1000; skip-count by 5s, 10s, and 100s. [2-NBT2]	**Lesson 7**	**Skip Count by 5s, 10s, and 100s**—pp. 64–71
7.	Read and write numbers to 1000 using base-ten numerals, number names, and expanded form. [2-NBT3]	**Lesson 8**	**Read and Write Numbers to 1,000**—pp. 72–79
8.	Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons. [2-NBT4]	**Lesson 9**	**Compare Numbers**—pp. 80–87
Use place value understanding and properties of operations to add and subtract.			
9.	Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction. 2-NBT5]	**Lesson 10**	**Add Two-Digit Numbers**—pp. 88–95
		Lesson 11	**Subtract Two-Digit Numbers**—pp. 96–103
10.	Add up to four two-digit numbers using strategies based on place value and properties of operations. [2-NBT6]	**Lesson 12**	**Add More than Two Numbers**—pp. 104–111
11.	Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds. [2-NBT7]	**Lesson 13**	**Add Three-Digit Numbers within 1,000**—pp. 112–119
		Lesson 14	**Subtract Three- Digit Numbers within 1,000**—pp. 120–127
12.	Mentally add 10 or 100 to a given number 100–900, and mentally subtract 10 or 100 from a given number 100–900. [2-NBT8]	**Lesson 15**	**Mentally Add and Subtract 10 or 100**—pp. 128–145
13.	Explain why addition and subtraction strategies work, using place value and the properties of operations. (Explanations may be supported by drawings or objects.) [2-NBT9]	**Lesson 10**	**Add Two-Digit Numbers**—pp. 88–95
		Lesson 11	**Subtract Two-Digit Numbers**—pp. 96–103

Measurement and Data

Grade 2 Standards	Sadlier Progress Mathematics, Grade 2
Measure and estimate lengths in standard units.	
14. Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes. [2-MD1]	**Lesson 16** **Measure Length: Inches and Feet**—pp. 146–153
	Lesson 17 **Measure Length: Centimeters and Meters**—pp. 154–161
15. 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. [2-MD2]	**Lesson 18** **Use Different Units to Measure Length**—pp. 162–169
16. Estimate lengths using units of inches, feet, centimeters, and meters. [2-MD3]	**Lesson 19** **Estimate Length**—pp. 170–177
17. Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit. [2-MD4]	**Lesson 20** **Compare Lengths**—pp. 178–185
Relate addition and subtraction to length.	
18. Use addition and subtraction within 100 to solve word problems 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. [2-MD5]	**Lesson 21** **Add and Subtract Lengths**—pp. 186–193
19. Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1, 2, ..., and represent whole-number sums and differences within 100 on a number line diagram. [2-MD6]	**Lesson 22** **Number Line Diagrams**—pp. 194–201
Work with time and money.	
20. Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m. [2-MD7]	**Lesson 23** **Tell and Write Time**—pp. 202–209
21. Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using $ and ¢ symbols appropriately. [2-MD8] Example: If you have 2 dimes and 3 pennies, how many cents do you have?	**Lesson 24** **Money**—pp. 210–217

Measurement and Data

Grade 2 Standards	Sadlier Progress Mathematics, Grade 2
Represent and interpret data.	
22. Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units. [2-MD9]	**Lesson 25** **Line Plots**—pp. 218–225
23. Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information presented in a bar graph. [2-MD10]	**Lesson 26** **Picture Graphs**—pp. 226–233 **Lesson 27** **Bar Graphs**—pp. 234–247

Geometry

Grade 2 Standards	Sadlier Progress Mathematics, Grade 2
Reason with shapes and their attributes.	
24. Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. (Sizes are compared directly or visually, not compared by measuring.) Identify triangles, quadrilaterals, pentagons, hexagons, and cubes. [2-G1]	**Lesson 28** **Identify and Draw Shapes**—pp. 248–255
25. Partition a rectangle into rows and columns of same-size squares and count to find the total number of them. [2-G2]	**Lesson 29** **Partition Rectangles into Same-Size**—pp. 256–263
26. Partition circles and rectangles into two, three, or four equal shares, 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 shares of identical wholes need not have the same shape. [2-G3]	**Lesson 30** **Equal Shares**—pp. 264–271