SADLIER

Common Core Progress Mathematics

Aligned to the

California Common Core State Standards – Mathematics

Grade 2

Contents

- 2 Operations and Algebraic Thinking
- 2 Number and Operations in Base Ten
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Ор	erations and Algebraic Thinkir	ng	2.OA
GRAD	e 2 Standards / Description	SADLIER COMMON CORE PROGRESS MATHEMATICS, GRADE 2	
	resent and solve problems involving ition and subtraction.		
1.	Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of	Lesson 1	Problem Solving: Addition—pp. 10–17
	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.	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.	Lesson 3	Addition and Subtraction Facts to 20 (fluency)—pp. 26–33
	k with equal groups of objects to gain ndations 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.	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.	Lesson 5	Arrays —pp. 42–55
Nu	mber and Operations in Base T	en	2.NBT
GRAD	e 2 Standards / Description	SADLIER COM	IMON CORE PROGRESS MATHEMATICS, GRADE 2
Und	lerstand place value.		
1.	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		

- a. 100 can be thought of as a bundle of ten tens called a "hundred."
- 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).

Lesson 6Place Value: Hundreds, Tens, and Ones—pp.
56–63Lesson 6Place Value: Hundreds, Tens, and Ones—pp.
56–63

2.NBT

Number and Operations in Base Ten

GRADE 2 STANDARDS / DESCRIPTION

- 2. Count within 1000; skip-count by 5s, 10s, and 100s.
- 3. Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.
- Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons.

Use place value understanding and properties of operations to add and subtract.

- 5. Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.
- 6. Add up to four two-digit numbers using strategies based on place value and properties of operations.
- 7. 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

7.1 Use estimation strategies to make reasonable estimates in problem solving. CA

- Mentally add 10 or 100 to a given number 100–900, and mentally subtract 10 or 100 from a given number 100– 900.
- 9. Explain why addition and subtraction strategies work, using place value and the properties of operations.¹

 $^{\scriptscriptstyle 1}$ Explanations may be supported by drawings or objects.

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Lesson 7	Skip Count by 5s, 10s, and 100s—pp. 64–71		
Lesson 8	Read and Write Numbers to 1,000—pp. 72–79		
Lesson 9	Compare Numbers—pp. 80–87		

Lesson 10	Add Two-Digit Numbers—pp. 88–95
Lesson 11	Subtract Two-Digit Numbers—pp. 96–103
Lesson 12	Add More than Two Numbers—pp. 104–111
Lesson 13	Add Three-Digit Numbers within 1,000—pp. 112–119

Lesson 15 Mentally Add and Subtract 10 or 100—pp. 128–145

Lesson 10	Add Two-Digit Numbers—pp. 88–95
Lesson 11	Subtract Two-Digit Numbers—pp. 96–103



2 MD

Measurement and Data

GRADE 2 STANDARDS / DESCRIPTION

Measure and estimate lengths in standard units.

- 1. Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.
- 2. 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.
- 3. Estimate lengths using units of inches, feet, centimeters, and meters.
- 4. Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit.

Relate addition and subtraction to length.

- 5. 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.
- 6. 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.

Work with time and money.

- 7. Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m. Know relationships of time (e.g., minutes in an hour, days in a month, weeks in a year). CA
- 8. Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately.

Example: If you have 2 dimes and 3 pennies, how many cents do you have?

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Lesson 16	Measure Length: Inches and Feet—pp. 146– 153
Lesson 17	Measure Length: Centimeters and Meters— pp. 154–161
Lesson 18	Use Different Units to Measure Length —pp. 162–169
Lesson 19	Estimate Length—pp. 170–177
Lesson 20	Compare Lengths—pp. 178–185
Lesson 21	Add and Subtract Lengths—pp. 186–193
Lesson 22	Number Line Diagrams—pp. 194–201
Lesson 23	Tell and Write Time—pp. 202–209
Lesson 24	Money —pp. 210–217

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2.MD

Measurement and Data

GRADE 2 STANDARDS / DESCRIPTION

Represent and interpret data.

- 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.
- 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.

Geometry

GRADE 2 STANDARDS / DESCRIPTION

Reason with shapes and their attributes.

 Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces.⁵ Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.

⁵ Sizes are compared directly or visually, not compared by measuring.

- 2. Partition a rectangle into rows and columns of samesize squares and count to find the total number of them.
- 3. 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.

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Lesson 25 Line Plots—pp. 218–225

Lesson 26 Picture Graphs—pp. 226–233

Lesson 27 Bar Graphs—pp. 234–247

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Lesson 28 Identify and Draw Shapes—pp. 248–255

Lesson 29 Partition Rectangles into Same-Size—pp. 256–263

Lesson 30 Equal Shares—pp. 264–271