Sadlier Math™
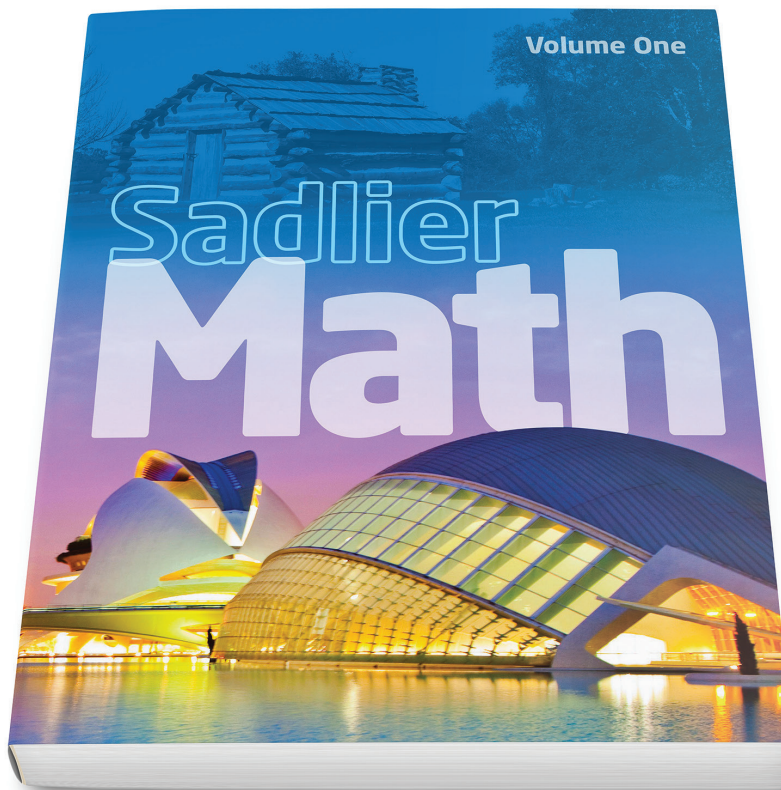
Correlation to the 2017 Massachusetts Mathematics Curriculum Framework

Grade 2

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OPERATIONS AND ALGEBRAIC THINKING   2.OA

Grade 2 Content Standards	*Sadlier Math*, Grade 2

A. 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.	**Chapter 1: 1-1 & 1-2, 1-7 & 1-9** **Chapter 2: 2-1 through 2-3, 2-10 & 2-12** **Chapter 4: 4-8 & 4-9**

B. Add and subtract within 20.

2.	Fluently add and subtract within 20 using mental strategies.[9] By end of Grade 2, know from memory all sums of two one-digit numbers. *For example, the sum 6 + 5 = 11 has related differences of 11 – 5 = 6 and 11 – 6 = 5.*	**Chapter 1: 1-3 through 1-10** **Chapter 2: 2-2, 2-4 through 2-1**

C. 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.	**Chapter 10: 10-1 & 10-2**
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.	**Chapter 10: 10-3 through 10-5**

[9]Strategies such as counting on; making tens; decomposing a number; using the relationship between addition and subtraction; and creating equivalent but easier or known sums.

NUMBER AND OPERATIONS IN BASE TEN   2.NBT

Grade 2 Content Standards	*Sadlier Math*, Grade 2
A. Understand 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."	**Chapter 7: 7-1**
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).	**Chapter 7: 7-1**
2. Count within 1,000; skip-count by 5s, 10s, and 100s. Identify patterns in skip counting starting at any number.	**Chapter 3: 3-5** **Chapter 7: 7-5**
3. Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.	**Chapter 3: 3-1 & 3-2** **Chapter 7: 7-2 through 7-4**
4. Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons.	**Chapter 7: 7-6 & 7-7**
B. 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.	**Chapter 1: 1-1 through 1-10** **Chapter 2: 2-1 through 2-12** **Chapter 4: 4-1 through 4-10** **Chapter 5: 5-1 through 5-9**
6. Add up to four two-digit numbers using strategies based on place value and properties of operations.	**Chapter 4: 4-1 through 4-10**

NUMBER AND OPERATIONS IN BASE TEN — 2.NBT

Grade 2 Content Standards	*Sadlier Math*, Grade 2
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.	**Chapter 1: 1-1 through 1-10** **Chapter 2: 2-1 through 2-11** **Chapter 4: 4-1 through 4-9** **Chapter 5: 5-1 through 5-8** **Chapter 7: 7-8** **Chapter 8: 8-2 1 through 8-8** **Chapter 9: 9-2 1 through 9-9**
8. Mentally add 10 or 100 to a given number 100–900, and mentally subtract 10 or 100 from a given number 100–900.	**Chapter 8: 8-1** **Chapter 9: 9-1**
9. Explain why addition and subtraction strategies work, using place value and the properties of operations.[10]	**Chapter 5: 5-7** **Chapter 8: 8-2 through 8-8** **Chapter 9: 9-2 through 9-9**

MEASUREMENT AND DATA — 2.MD

Grade 2 Content Standards	*Sadlier Math*, Grade 2
A. 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.	**Chapter 6: 6-1 through 6-6**
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.	**Chapter 6: 6-7**
3. Estimate lengths using units of inches, feet, centimeters, and meters.	**Chapter 6: 6-1, 6-4 & 6-5**

[10]Explanations may be supported by drawings or objects.

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MEASUREMENT AND DATA   2.MD

Grade 2 Content Standards	*Sadlier Math*, Grade 2
4. Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit.	**Chapter 6: 6-8 & 6-9**
B. 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.	**Chapter 6: 6-9 & 6-10**
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.	**Chapter 6: 6-11 & 6-12**
C. 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.	
a. Know the relationships of time, including seconds in a minute, minutes in an hour, hours in a day, days in a week; days in a month and a year and approximate number of weeks in a month and weeks in a year.	**Chapter 12: 12-9 through 12-11**
8. Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies (up to $10), using $ and ¢ symbols appropriately and whole dollar amounts. *Example: if you have 2 dimes and 3 pennies, how many cents do you have? If you have $3 and 4 quarters, how many dollars or cents do you have? (Students are not expected to use decimal notation.)*	**Chapter 12: 12-1 through 12-8**

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MEASUREMENT AND DATA   2.MD

Grade 2 Content Standards	*Sadlier Math*, Grade 2
D. Represent and interpret data.	
9. 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.	**Chapter 11: 11-1 & 11-2**
10. 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.	**Chapter 11: 11-3 through 11-7**

GEOMETRY   2.G

Grade 2 Content Standards	*Sadlier Math*, Grade 2
A. Reason with shapes and their attributes.	
1. Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces.[12] Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.	**Chapter 13: 13-1 through 13-4**
2. Partition a rectangle into rows and columns of same-size squares and count to find the total number of them.	**Chapter 14: 14-1**
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.	**Chapter 14: 14-2 through 14-4**

[12]Sizes are compared directly or visually, not compared by measuring.

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