

SADLIER

Progress in Mathematics

Aligned to the

Archdiocese of Detroit

Second Grade Mathematics Standards

Grade 2

Operations and Algebraic Thinking				
Number and Operations in Base Ten	6			
Measurement and Data	14			
Geometry	18			





ARCHDIOCESE OF DETROIT: SECOND GRADE MATHEMATICS STANDARDS

Represent and solve problems involving addition and subtraction.

2.OA.A.1

Use addition and subtraction within 100 to solve oneand 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.

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

1-1 Addition Concepts—pp. 3-4

Objective(s): To add numbers with sums to 12.

1-2 Problem Solving: Read and Write in Math: Find Extra Information—pp. 5-6

Objective(s): To use the reading strategy of rereading to help solve math problems.

1-7 Doubles Facts—pp. 17-18

Objective(s): To use doubles strategy to find sums.

*1-11A Add or Subtract to Compare—Online

Objective(s): To subtract and compare two numbers.

To add or subtract to find a missing number in a comparison situation when the difference is known.

1-12 Count Back to Subtract—pp. 29-30

Objective(s): To use $count\ back$ strategy to find differences from 12 or less.

1-14 Relate Addition and Subtraction—pp. 33-34

Objective(s): To identify, solve, and write related addition and subtraction facts.

1-15 Use Addition to Check—pp. 35-36

Objective(s): To use addition to check subtraction.

1-16 Count Up to Subtract—pp. 39-40

Objective(s): To count up to subtract.

*1-16B Writing a Number Sentence—Online

Objective(s): To write a number sentence to solve a problem involving joining or separating, where the unknown number is in any position.

To write an equation to solve addition and subtraction word problems.

1-18 Missing Addends—pp. 43-44

Objective(s): To count up or use a subtraction fact to find missing addends.

*1-18A Use a Bar Model—Online

Objective(s): To use a bar model to solve addition and subtraction word problems.

To use an equation to represent addition and subtraction problems.

4-1 Add Ones and Tens—pp. 155-156

Objective(s): To add ones and tens without regrouping.

4-2 Mental Math Addition—pp. 157-158

Objective(s): To use mental math strategies to add.

4-4 Problem Solving: Read and Write in Math: Find Hidden

Information—pp. 161–162

Objective(s): To use the reading skill of finding hidden information to solve a problem.

4-6 Regroup Ones as Tens—pp. 165-166

Objective(s): To add tens and ones, regrouping ones.

*4-6A Mental Math: Add Two-Digit Numbers—Online

Objective(s): To add a two-digit number by decomposing the number into tens and ones and adding mentally.

*4-6B Mental Math: Use Compensation—Online

Objective(s): To add two two-digit numbers by adding tens and counting back.

4-9 Three Addends—pp. 173–174

Objective(s): To add three numbers with and without regrouping.



ARCHDIOCESE OF DETROIT: SECOND GRADE MATHEMATICS STANDARDS

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

4-12 Problem Solving Strategy: Use More Than One Step—pp. 181–182

Objective(s): To solve problems using more than one step.

5-1 Subtract Tens and Ones—p. 195

Objective(s): To subtract 2-digit numbers without regrouping.

5-6 Regroup Tens as Ones—pp. 205–206

Objective(s): To subtract two-digit numbers, with regrouping.

To subtract one-digit numbers from two-digit numbers, with regrouping.

*5-6A Mental Math: Subtract Two-Digit Numbers—Online

Objective(s): To subtract a two-digit number by decomposing the number into tens and ones and subtracting mentally

5-8 Rewrite Two-Digit Subtraction—pp. 211–212

Objective(s): To rewrite two-digit subtraction from horizontal form to vertical form and subtract.

5-9 Add to Check—pp. 213-214

Objective(s): To use addition to check subtraction.

5-12 Problem Solving: Read and Write in Math: Ask a Question—pp. 221–222

Objective(s): To ask an addition or subtraction question to complete a math problem.

*11-18A Solve Two-Step Problems—Online

Objective(s): To use drawings and equations to represent and solve twostep problems (within 100).

Add and subtract within 20.

2.OA.B.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.

Skills Update: Addition Facts to 10-p. A

1-1 Addition Concepts—pp. 3-4

Objective(s): To add numbers with sums to 12.

1-2 Problem Solving: Read and Write in Math: Find Extra Information—pp. 5-6

Objective(s): To use the reading strategy of rereading to help solve math problems.

1-3 Related Addition Facts—pp. 7-8

Objective(s): To solve and write related addition facts.

1-4 Count On to Add—pp. 9–10

Objective(s): To use the count on strategy to find sums.

1-5 Extend Facts to 20—pp. 11-12

Objective(s): To add numbers with sums to 20.

1-6 Make 10 to Add—pp. 15–16

Objective(s): To use the make 10 strategy to find sums.

1-7 Doubles Facts—pp. 17–18

Objective(s): To use *doubles* strategy to find sums.

1-8 Doubles + 1, Doubles -1—pp. 19–20

Objective(s): To use the *doubles + 1* and *doubles - 1* strategies to find sums.

1-9 Three Addends—pp. 21-22

Objective(s): To add a column of 3 numbers.

1-10 Four Addends—pp. 23-24

Objective(s): To add a column of 4 numbers.

1-11 Subtraction Concepts—pp. 27–28

Objective(s): To subtract numbers from 12 or less.



ARCHDIOCESE OF DETROIT: SECOND GRADE MATHEMATICS STANDARDS

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

*1-11A Add or Subtract to Compare—Online

Objective(s): To subtract and compare two numbers.

To add or subtract to find a missing number in a comparison situation when the difference is known.

1-12 Count Back to Subtract—pp. 29–30

Objective(s): To use *count back* strategy to find differences from 12 or less

1-13 Related Subtraction Facts—pp. 31–32

Objective(s): To solve and write related subtraction facts.

1-14 Relate Addition and Subtraction—pp. 33-34

Objective(s): To identify, solve, and write related addition and subtraction facts.

*1-14A Think Addition to Subtract—Online

Objective(s): To use addition facts to find differences.

1-15 Use Addition to Check—pp. 35-36

Objective(s): To use addition to check subtraction.

1-16 Count Up to Subtract—pp. 39-40

Objective(s): To count up to subtract.

*1-16A Make 10 to Subtract—Online

Objective(s): To use the Make 10 strategy to find differences.

*1-16B Writing a Number Sentence—Online

Objective(s): To write a number sentence to solve a problem involving joining or separating, where the unknown number is in any position.

To write an equation to solve addition and subtraction word problems.

1-17 Fact Families—pp. 41-42

Objective(s): To identify and write fact families.

1-18 Missing Addends—pp. 43–44

Objective(s): To count up or use a subtraction fact to find missing addends.

*1-18A Use a Bar Model—Online

Objective(s): To use a bar model to solve addition and subtraction word problems.

To use an equation to represent addition and subtraction problems.

1-19 Fact Patterns—pp. 45-46

Objective(s): To recognize and complete number patterns.

To identify and use patterns to complete addition and subtraction facts.

Work with equal groups of objects to gain foundations for multiplication.

2.OA.C.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.

Introduction to Problem Solving: Problem-Solving Strategy: Write a Number Sentence—SE p. D

*1-16B Writing a Number Sentence—Online

Objective(s): To write a number sentence to solve a problem involving joining or separating, where the unknown number is in any position.

To write an equation to solve addition and subtraction word problems.

*2-12A Model Even and Odd—Online

Objective(s): To determine if a group of objects (up to 20) has an odd or an even number of members.

To write an equation to express an even number as a sum of two equal addends.



ARCHDIOCESE	OF	DETROIT: 9	SECOND	GRADE MATHEMATICS STANDARDS	
AUCHDIOCESE	Ur	DEIROII.	DECOND	GRADE MINITEMINITES STANDARDS	

2.OA.C.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.

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

2-13 Even and Odd Numbers-pp. 93-94

Objective(s): To identify even and odd numbers.

Introduction to Problem Solving: Problem-Solving Strategy: Write a Number Sentence—SE p. D

*1-16B Writing a Number Sentence—Online

Objective(s): To write a number sentence to solve a problem involving joining or separating, where the unknown number is in any position.

To write an equation to solve addition and subtraction word problems.

12-1 Multiplication as Repeated Addition—pp. 549-550

Objective(s): To explore the concept of multiplication as repeated addition.

*12-1A Use an Array Model—Online

Objective(s): To use addition to find the total number of objects in a rectangular array.

2.OA.C.5 Understand division as another way of expressing multiplication, using fact families.

12-15 Relate Multiplication and Division—pp. 579–580

Objective(s): To relate multiplication and division.

To recognize that multiplication and division are inverse operations.

2.OA.C.6 Given a situation involving groups of equal size or of sharing equally, represent with objects, words, symbols; solve

Skills Update: Equal Groups—p. M

12-9 Separate Groups of 2—pp. 567-568

Objective(s): To explore the concept of division as separating. To divide by 2.

12-10 Separate Groups of 3—pp. 569–570

Objective(s): To explore the concept of division as separating. To divide by 3.

12-11 Separate Groups of 4—pp. 571–572

Objective(s): To explore the concept of division as separating. To divide by 4.

12-12 Separate Groups of 5—pp. 573–574

Objective(s): To explore the concept of division as separating. To divide by 5.

2.OA.C.7 Develop strategies for fluently multiplying numbers up to 5 x 5.

*12-1A Use an Array Model—Online

Objective(s): To use addition to find the total number of objects in a rectangular array.

12-2 Multiply Groups of 2—pp. 551–552

Objective(s): To multiply twos.

12-3 Multiply Groups of 3—pp. 553–554

Objective(s): To multiply threes.

12-4 Problem Solving: Read and Write in Math: Visualize—pp.

555-556

Objective(s): To solve problems using the skill of visualizing.

12-5 Multiply Groups of 4-pp. 557-558

Objective(s): To multiply fours.

12-6 Multiply Groups of 5-pp. 559-560

Objective(s): To multiply fives.

12-7 Related Multiplication Facts—pp. 561–562

Objective(s): To use the commutative (order) property of multiplication. To use a multiplication table.



ARCHDIOCESE OF DETROIT: SECOND GRADE MATHEMATICS STANDARDS

Understand the place value system.

2.NBT.A.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:

2.NBT.A.1a 100 can be thought of as a bundle of ten tens — called a "hundred."

2.NBT.A.1b 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.NBT.A.2 Count within 1000; skip-count by 5s, 10s, and 100s.

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

2-1 Tens and Ones—pp. 65-66

Objective(s): To identify a group of 10 ones as 1 ten.

To group ones as tens and ones.

2-2 Place Value—pp. 67–68

Objective(s): To identify the place and value of each digit in numbers to 99 using place-value models.

8-1 Hundreds—pp. 349–350

Objective(s): To recognize 10 tens as 1 hundred.

To read and write numbers and number words for 100-900.

To recognize place value of numbers to 900.

*8-1A Make Hundreds—Online

Objective(s): To recognize 10 tens as 1 hundred.

To recognize a multiple of ten tens as a number of hundreds.

To recognize place value of hundreds to 900.

8-2 Hundreds, Tens, and Ones—pp. 351–352

Objective(s): To read and write numbers and number words for 100-999.

To recognize place value of numbers to 999.

8-3 Place Value of Three–Digit Numbers—pp. 353–354

Objective(s): To identify the place value of a designated digit in a threedigit number.

8-4 Expanded Form with Hundreds, Tens, and Ones—pp. 355–356

 $Objective (s): To \ write \ three-digit \ numbers \ in \ expanded \ form.$

8-1 Hundreds—pp. 349–350

Objective(s): To recognize 10 tens as 1 hundred.

To read and write numbers and number words for 100-900.

To recognize place value of numbers to 900.

*8-1A Make Hundreds—Online

Objective(s): To recognize 10 tens as 1 hundred.

To recognize a multiple of ten tens as a number of hundreds.

To recognize place value of hundreds to 900.

8-2 Hundreds, Tens, and Ones—pp. 351–352

Objective(s): To read and write numbers and number words for 100-

To recognize place value of numbers to 999.

8-3 Place Value of Three–Digit Numbers—pp. 353–354

Objective(s): To identify the place value of a designated digit in a three-digit number.

8-4 Expanded Form with Hundreds, Tens, and Ones—pp. 355–356

Objective(s): To write three-digit numbers in expanded form.

2-15 Counting Patterns (hundred chart, count by 10s)—pp. 97–98

Objective(s): To count and complete number patterns.

To continue patterns and explain the patterns.



ARCHDIOCESE OF DETROIT: SECOND GRADE MATHEMATICS STANDARDS

numerals, number names, and expanded form.

2.NBT.A.3

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

8-1 Hundreds—pp. 349–350

Objective(s): To recognize 10 tens as 1 hundred.

To read and write numbers and number words for 100-900.

To recognize place value of numbers to 900.

8-2 Hundreds, Tens, and Ones (count by 100s)—pp. 351–352

Objective(s): To read and write numbers and number words for 100-999; to recognize place value of numbers to 999.

*8-4A Skip Count to 1000—Online

Objective(s): To skip count by 5s, 10s, and 100s to 1000.

8-5 Counting Patterns with 3-Digit Numbers (10s, 100s)—pp. 357–358

Objective(s): To count by 1s, 10s, 25s, 50s, and 100s.

9-2 Count On 1, 10, and 100-pp. 385-386

Objective(s): To count on by 1s, 10s, and 100s.

Read and write numbers to 1000 using base-ten Skills Update: Number Words to Twenty—p. C

2-3 Number Words Twenty to Forty–Nine—pp. 69–70 Objective(s): To read and write numbers 20-49 using numbers.

Objective(s): To read and write numbers 20-49 using numbers and number words.

To recognize the numbers 20-49 expressed as tens and ones.

2-4 Number Words Fifty to Ninety-Nine-pp. 71-72

Objective(s): To read and write numbers 50-99 using numbers and number words.

To recognize the numbers 50-99 expressed as tens and ones.

2-6 Place Value of Two-Digit Numbers-pp. 75-76

Objective(s): To determine the value of a designated digit in a two-digit number.

2-7 Expanded Form—pp. 77–78

Objective(s): To write the expanded form of 2-digit numbers.

8-1 Hundreds—pp. 349–3**50**

Objective(s): To recognize 10 tens as 1 hundred; to read and write numbers and number words for 100-900.

To recognize place value of numbers to 900.

*8-1A Make Hundreds—Online

Objective(s): To recognize 10 tens as 1 hundred; to recognize a multiple of ten tens as a number of hundreds.

To recognize place value of hundreds to 900.

8-2 Hundreds, Tens, and Ones—pp. 351–352

Objective(s): To read and write numbers and number words for 100-999.

To recognize place value of numbers to 999.

8-3 Place Value of Three-Digit Numbers-pp. 353-354

Objective(s): To identify the place value of a designated digit in a threedigit number.

8-4 Expanded Form with Hundreds, Tens, and Ones—pp. 355–356

Objective(s): To write three-digit numbers in expanded form.

2.NBT.A.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.

Skills Update: Greater or Less—p. D

2-8 Compare Numbers—pp. 81-82

Objective(s): To compare numbers using the symbols <, =, and >.

2-9 Order Using a Number Line—pp. 83–84

Objective(s): To compare and order numbers to 100.

2-10 Order Using Models—pp. 85–86

Objective(s): To compare and order numbers to 100 using models.



ARCHDIOCESE OF DETROIT: SECOND GRADE MATHEMATICS STANDARDS

Round numbers to hundreds place.

Count orally by 3's and 4's starting with 0, and by 2's,

5's, and 10's starting from any whole number.

2.NBT.A.5

2.NBT.A.6

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

*8-5A Use Benchmark Numbers to Compare—Online

Objective(s): To compare two 3-digit numbers by comparing them to benchmark numbers.

8-6 Compare Numbers to 1000—pp. 361-362

Objective(s): To compare two 3-digit numbers using symbols <, >, and =.

8-7 Order to 1000—pp. 363-364

Objective(s): To order 3-digit numbers from greatest to least and from least to greatest.

Connection: Math and Science (compare)—p. 106

2-12 Round to the Nearest Ten-pp. 89-90

Objective(s): To use a number line to round to the nearest ten.

8-9 Round to the Nearest Hundred—pp. 367-368

Objective(s): To round numbers to the nearest hundred.

2-14 Count by 3s and 4s—pp. 95-96

Objective(s): To count to 100 by 3s and 4s using a hundred chart and real-world objects.

2-15 Counting Patterns (hundred chart, count by 10s)—pp. 97–98

Objective(s): To count and complete number patterns.

*8-4A Skip Count to 1000—Online

Objective(s): To skip count by 5s, 10s, and 100s to 1000.

8-5 Counting Patterns with 3-Digit Numbers (10s, 100s)—pp. 357-358

Objective(s): To count by 1s, 10s, 25s, 50s, and 100s.

9-2 Count On 1, 10, and 100-pp. 385-386

Objective(s): To count on by 1s, 10s, and 100s.

To continue patterns and explain the patterns.

Use Place Value Understanding and Properties of Operations to Add and Subtract

2.NBT.B.7 Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.

4-1 Add Ones and Tens-pp. 155-156

Objective(s): To add ones and tens without regrouping.

4-2 Mental Math Addition—pp. 157-158

Objective(s): To use mental math strategies to add.

4-3 Regroup Ones as Tens: Use Models—pp. 159–160

Objective(s): To regroup ones as tens using models.

4-4 Problem Solving: Read and Write in Math: Find Hidden Information—pp. 161–162

Objective(s): To use the reading skill of finding hidden information to solve a problem.

4-5 Regroup Ones as Tens: Model and Record—pp. 163–164

 $\label{thm:constraints} Objective (s): To \ add \ tens \ and \ ones, \ regrouping \ ones.$

4-6 Regroup Ones as Tens—pp. 165–166

Objective(s): To add tens and ones, regrouping ones.

*4-6A Mental Math: Add Two-Digit Numbers—Online

Objective(s): To add a two-digit number by decomposing the number into tens and ones and adding mentally.

*4-6B Mental Math: Use Compensation—Online

Objective(s): To add two two-digit numbers by adding tens and counting

4-7 Estimate Sums—pp. 169–170

Objective(s): To estimate sums of 2 two-digit numbers.

4-8 Rewrite Two-Digit Addition—pp. 171–172

Objective(s): To rewrite two-digit addition from horizontal to vertical and add.



ARCHDIOCESE OF DETROIT: SECOND GRADE MATHEMATICS STANDARDS

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

4-9 Three Addends—pp. 173-174

Objective(s): To add three numbers with and without regrouping.

4-10 Add: Choose the Method—pp. 177–178

Objective(s): To explore methods for finding sums, with and without regrouping.

5-1 Subtract Tens and Ones—p. 195

Objective(s): To subtract 2-digit numbers without regrouping.

5-2 Mental Math Subtraction—pp. 197–198

Objective(s): To use mental math strategies to subtract ones and tens.

5-3 Ways to Make Numbers—pp. 199–200

Objective(s): To identify more than one way to write a number.

5-4 Regroup Tens as Ones: Use Models—pp. 201–202

Objective(s): To use models to regroup 1 ten as 10 ones.

$\textbf{5-5 Regroup Tens as Ones: Model and Record} - pp.\ 203-204$

 $Objective (s): To \ subtract \ 2-digit \ numbers, \ with \ regrouping.$

5-6 Regroup Tens as Ones—pp. 205–206

Objective(s): To subtract two-digit numbers, with regrouping.

To subtract one-digit numbers from two-digit numbers,
with regrouping.

*5-6A Mental Math: Subtract Two-Digit Numbers—Online

Objective(s): To subtract a two-digit number by decomposing the number into tens and ones and subtracting mentally

5-7 Estimate Differences—pp. 209-210

Objective(s): To estimate differences of 2 two-digit numbers

5-8 Rewrite Two-Digit Subtraction—pp. 211–212

Objective(s): To rewrite two-digit subtraction from horizontal form to vertical form and subtract.

5-9 Add to Check—pp. 213–214

Objective(s): To use addition to check subtraction.

5-10 Subtraction Practice—pp. 215–216

Objective(s): To practice subtraction with two-digit numbers, with and without regrouping.

5-11 Chain Operations—pp. 217-218

Objective(s): To solve chain operations involving addition and subtraction.

5-13 Choose the Method—pp. 223–224

Objective(s): To choose the most efficient computational method to add or subtract: mental math or paper and pencil.

es **4-9 Three Addends**—pp. 173–174

Objective(s): To add three numbers with and without regrouping.

*4-9A Four Addends—Online

Objective(s): To add 2-digit numbers (up to 4 addends), within 100.

9-1 Add Hundreds, Tens, and Ones—pp. 383–384

Objective(s): To add 3-digit numbers without regrouping.

To use mental math strategies to add 3-digit numbers.

9-2 Count On 1, 10, and 100—pp. 385–386

Objective(s): To count on by 1s, 10s, and 100s.

To continue patterns and explain the patterns.

9-3 Add: Regroup Ones as Tens—pp. 387-388

Objective(s): To add 3-digit numbers, regrouping ones as tens.

9-4 Regroup Tens as Hundreds Using Models—pp. 389–390

 $Objective (s): To \ explore \ regrouping \ tens \ as \ hundreds, \ using \ models.$

9-5 Add: Regroup Tens as Hundreds—pp. 391–392

Objective(s): To add 3-digit numbers, regrouping tens as hundreds.

*9-5A Draw Pictures to Add—Online

Objective(s): To draw pictures to represent regrouping twice in addition.

2.NBT.B.8 Add up to four two-digit numbers using strategies based on place value and properties of operations.

2.NBT.B.9 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.



ARCHDIOCESE OF DETROIT: SECOND GRADE MATHEMATICS STANDARDS

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

9-6 Add: Regroup Twice—pp. 393–394

Objective(s): To add 3-digit numbers, regrouping twice.

*9-6A Using Properties to Add—Online

Objective(s): To use the associative property to decompose a number that is being added to another number.

9-7 Add Money: No Regrouping—pp. 397–398

Objective(s): To add money amounts without regrouping.

9-8 Problem Solving: Read and Write in Math: Find Needed Information—pp. 399-400

Objective(s): To use the strategy of rereading to find information in a problem.

9-9 Add Money: Regroup Dimes or Pennies—pp. 401–402

Objective(s): To add money amounts, regrouping once.

9-10 Add Money: Regroup Twice-pp. 403-404

Objective(s): To add money amounts, regrouping twice.

9-11 Subtract Hundreds, Tens, and Ones—pp. 407-408

Objective(s): To subtract 3-digit numbers without regrouping.

9-12 Count Back 1, 10, and 100—pp. 409-410

Objective(s): To count back by 1s, 10s, and 100s. To continue patterns and explain the patterns.

9-13 Subtract: Regroup Tens as Ones—pp. 411–412

Objective(s): To subtract 3-digit numbers, regrouping tens as ones.

9-14 Regroup Hundreds as Tens Using Models—pp. 413–414

Objective(s): To explore regrouping hundreds as tens, using models.

*9-14A Draw Pictures to Subtract—Online

Objective(s): To draw pictures to represent regrouping in subtraction.

9-15 Subtract: Regroup Hundreds as Tens—pp. 415-416

Objective(s): To subtract 3-digit numbers, regrouping hundreds as tens.

9-16 Subtract: Regroup Twice—pp. 417-418

Objective(s): To subtract 3-digit numbers, regrouping twice.

*9-16A Add to Check Subtraction—Online

Objective(s): To use the relationship between addition and subtraction to check a difference.

9-17 Subtract Money: Regroup Dollars or Dimes—pp. 421–422

Objective(s): To subtract money amounts, regrouping once.

9-18 Subtract Money: Regroup Twice—pp. 423-424

Objective(s): To subtract money amounts, regrouping twice.

9-19 Estimate to Add or Subtract—pp. 425-426

Objective(s): To round 3-digit numbers to the nearest hundred. To estimate sums and differences of 3-digit numbers.

9-20 Problem Solving Strategy: Use Logical Reasoning—pp. 427-

Objective(s): To use logical reasoning to solve a problem.

9-21 Problem Solving Applications: Mixed Strategies—pp. 429–430

Ch. 9 Enrichment: Add Three 3-Digit Addends—p. 436

2.NBT.B.10 Mentally add 10 or 100 to a given number 100-900, and mentally subtract 10 or 100 from a given number 100-900.

2-15 Counting Patterns (hundred chart, count by 10s)—pp. 97–98 Objective(s): To count and complete number patterns.

*8-4A Skip Count to 1000—Online

Objective(s): To skip count by 5s, 10s, and 100s to 1000.

8-5 Counting Patterns with 3-Digit Numbers (10s, 100s)—pp. 357-

Objective(s): To count by 1s, 10s, 25s, 50s, and 100s.

9-2 Count On 1, 10, and 100—pp. 385–386

Objective(s): To count on by 1s, 10s, and 100s.

To continue patterns and explain the patterns.



ARCHDIOCESE OF DETROIT: SECOND GRADE MATHEMATICS STANDARDS

2.NBT.B.11 Explain why addition and subtraction strategies work, using place value and the properties of operations.

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

*9-5A Draw Pictures to Add—Online

Objective(s): To draw pictures to represent regrouping twice in addition.

9-12 Count Back 1, 10, and 100—pp. 409–410

Objective(s): To count back by 1s, 10s, and 100s; to continue patterns and explain the patterns.

*9-14A Draw Pictures to Subtract—Online

Objective(s): To draw pictures to represent regrouping in subtraction.

*4-9A Four Addends—Online

Objective(s): To add 2-digit numbers (up to 4 addends), within 100.

9-1 Add Hundreds, Tens, and Ones—pp. 383-384

Objective(s): To add 3-digit numbers without regrouping. To use mental math strategies to add 3-digit numbers.

9-2 Count On 1, 10, and 100—pp. 385–386

Objective(s): To count on by 1s, 10s, and 100s. To continue patterns and explain the patterns.

9-3 Add: Regroup Ones as Tens—pp. 387–388

Objective(s): To add 3-digit numbers, regrouping ones as tens.

9-4 Regroup Tens as Hundreds Using Models—pp. 389–390

Objective(s): To explore regrouping tens as hundreds, using models.

9-5 Add: Regroup Tens as Hundreds—pp. 391–392

Objective(s): To add 3-digit numbers, regrouping tens as hundreds.

9-6 Add: Regroup Twice—pp. 393–394

Objective(s): To add 3-digit numbers, regrouping twice.

*9-6A Using Properties to Add—Online

Objective(s): To use the associative property to decompose a number that is being added to another number.

9-11 Subtract Hundreds, Tens, and Ones—pp. 407–408

Objective(s): To subtract 3-digit numbers without regrouping.

9-12 Count Back 1, 10, and 100—pp. 409–410

Objective(s): To count back by 1s, 10s, and 100s.

To continue patterns and explain the patterns.

9-13 Subtract: Regroup Tens as Ones—pp. 411-412

Objective(s): To subtract 3-digit numbers, regrouping tens as ones.

9-14 Regroup Hundreds as Tens Using Models-pp. 413-414

9-15 Subtract: Regroup Hundreds as Tens—pp. 415–416

Objective(s): To explore regrouping hundreds as tens, using models.

Objective(s): To subtract 3-digit numbers, regrouping hundreds as tens.

9-16 Subtract: Regroup Twice—pp. 417–418

Objective(s): To subtract 3-digit numbers, regrouping twice.

*9-16A Add to Check Subtraction—Online

Objective(s): To use the relationship between addition and subtraction to check a difference.

*See Talk It Over or Write About It in the above lessons for opportunities for students to discuss and explain why addition and subtraction strategies work.

2.NBT.B.12 Calculate mentally sums and differences involving: three-digit number and ones, three-digit numbers and tens; three-digit numbers and hundreds

*4-6A Mental Math: Add Two-Digit Numbers—Online

Objective(s): To add a two-digit number by decomposing the number into tens and ones and adding mentally.

*4-6B Mental Math: Use Compensation—Online

Objective(s): To add two two-digit numbers by adding tens and counting

4-10 Add: Choose the Method—pp. 177–178

Objective(s): To explore methods for finding sums, with and without regrouping.



ARCHDIOCESE OF DETROIT: SECOND GRADE MATHEMATICS STANDARDS

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

5-2 Mental Math Subtraction—pp. 197–198

Objective(s): To use mental math strategies to subtract ones and tens.

*5-6A Mental Math: Subtract Two-Digit Numbers—Online

Objective(s): To subtract a two-digit number by decomposing the number into tens and ones and subtracting mentally

5-13 Choose the Method—pp. 223–224

Objective(s): To choose the most efficient computational method to add or subtract: mental math or paper and pencil.

*Calculating mentally sums and differences in the above-cited lessons is limited to two-digit numbers; mental calculations with larger numbers begins in Grade 3.

Estimate the sum of two numbers with three digits.

9-19 Estimate to Add or Subtract—pp. 425–426

Objective(s): To round 3-digit numbers to the nearest hundred.

To estimate sums and differences of 3-digit numbers.

2.NBT.B.14 Find the missing values in open sentences (42 + _ = 57); use relationship between addition and subtraction

*1-16B Writing a Number Sentence—Online

Objective(s): To write a number sentence to solve a problem involving joining or separating, where the unknown number is in any position.

To write an equation to solve addition and subtraction word problems.

1-17 Fact Families—pp. 41–42

Objective(s): To identify and write fact families.

1-18 Missing Addends—pp. 43-44

Objective(s): To count up or use a subtraction fact to find missing addends.

1-19 Fact Patterns—pp. 45-46

Objective(s): To recognize and complete number patterns.

To identify and use patterns to complete addition and subtraction facts.

5-9 Add to Check—pp. 213-214

Objective(s): To use addition to check subtraction.

*9-16A Add to Check Subtraction—Online

Objective(s): To use the relationship between addition and subtraction to check a difference.

Work with Unit Fractions

2.NBT.B.13

2.NBT.C.15 Recognize, name and represent commonly used unit fractions with denominators 12 or less.

10-1 Fractions: 1/2, 1/4, 1/8—p. 445

Objective(s): To identify the fractions 1/2, 1/4, and 1/8.

To write a fraction for the shaded part of a figure.

*10-1A Fractions: 1/2, 1/3, 1/4-Online

Objective(s): To identify unit fractions for halves, thirds, and fourths.

To partition shapes into halves, thirds, and fourths.

10-2 More Fractions—pp. 447–448

Objective(s): To identify the fractions 1/3, 1/5, 1/6, 1/7, 1/9, 1/10, 1/11, 1/12.

To write a fraction for the shaded part of a figure.

2.NBT.C.16 Recognize, name and write commonly used fractions: 1/2, 1/3, 2/3, etc.

10-1 Fractions: 1/2, 1/4, 1/8—p. 445

Objective(s): To identify the fractions 1/2, 1/4, and 1/8.

To write a fraction for the shaded part of a figure.

*10-1A Fractions: 1/2, 1/3, 1/4-Online

Objective(s): To identify unit fractions for halves, thirds, and fourths.

To partition shapes into halves, thirds, and fourths.



ARCHDIOCESE OF DETROIT: SECOND GRADE MATHEMATICS STANDARDS

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

10-2 More Fractions—pp. 447–448

Objective(s): To identify the fractions 1/3, 1/5, 1/6, 1/7, 1/9, 1/10, 1/11,

To write a fraction for the shaded part of a figure.

2.NBT.C.17 Place 0 and halves on the number line; relate to a

*10-2A Whole Numbers and the Number Line—Online

Objective(s): To represent whole numbers as lengths from 0 on a number line.

> To represent sums and differences (within 100) on a number line.

2.NBT.C.18 For unit fractions from 1/12 to 1/2 understand the inverse relationship between the size of a unit fractions and size of the denominator; compare unit fractions from 1/12 to 1/2.

2.NBT.C.19 Recognize that fractions such as 2/2, 3/3, 4/4 are equal to the whole (one).

10-3 Compare Fractions—pp. 449-450

Objective(s): To use the greater than, less than, and equals signs to compare unit fractions.

10-4 Order Fractions—pp. 451–452

Objective(s): To use models to order unit fractions.

10-6 Fractions Equal to 1—pp. 457-458

Objective(s): To recognize and write fractions equal to 1.



ARCHDIOCESE OF DETROIT: SECOND GRADE MATHEMATICS STANDARDS

Measure and estimate lengths in standard units.

2.MD.A.1 Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

11-2 Inches—pp. 493–494

Objective(s): To estimate and measure length and height in inches.

11-3 Half Inch—pp. 495–496

Objective(s): To measure lengths to the nearest half inch.

11-4 Feet and Yards—pp. 497-498

Objective(s): To estimate and measure length and height in feet and yards.

To choose inches, feet, or yards as the most appropriate unit of measure.

11-9 Centimeters—pp. 511–512

Objective(s): To estimate and measure length and height in centimeters.

11-10 Meters—pp. 513–514

 $\label{eq:objective} Objective (s): To estimate and measure length and height in centimeters \\ and meters.$

11-17 Choose Tools and Units of Measure—pp. 529-530

Objective(s): To identify appropriate units of measure.

To identify the appropriate measuring tool.

*11-4A Measure Length—Online

Objective(s): To describe how two different measurements of the same objects relate to the size of the unit chosen.

To measure to find how much longer one object is than another.

11-2 Inches—pp. 493–494

Objective(s): To estimate and measure length and height in inches.

11-4 Feet and Yards—pp. 497-498

Objective(s): To estimate and measure length and height in feet and vards.

To choose inches, feet, or yards as the most appropriate unit of measure.

11-9 Centimeters—pp. 511–512

Objective(s): To estimate and measure length and height in centimeters.

11-10 Meters—pp. 513–514

Objective(s): To estimate and measure length and height in centimeters and meters.

Measure to determine how much longer one object *11-4A Measure Length—Online

Objective(s): To describe how two different measurements of the same objects relate to the size of the unit chosen.

To measure to find how much longer one object is than

11-2 Inches—pp. 493–494

Objective(s): To estimate and measure length and height in inches.

11-4 Feet and Yards—pp. 497–498

Objective(s): To estimate and measure length and height in feet and yards.

To choose inches, feet, or yards as the most appropriate unit of measure.

*11-4A Measure Length (length, width)—Online

Objective(s): To describe how two different measurements of the same objects relate to the size of the unit chosen.

To measure to find how much longer one object is than another.

2.MD.A.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.

2.MD.A.3 Estimate lengths using units of inches, feet, centimeters, and meters.

2.MD.A.5

2.MD.A.4

Distinguish between length, width, height, and

terms of a standard length unit.

weight.

is than another, expressing the length difference in



ARCHDIOCESE OF DETROIT: SECOND GRADE MATHEMATICS STANDARDS

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

11-8 Ounces and Pounds (weight)—pp. 507–508

Objective(s): To estimate and measure weight in ounces and pounds; to order objects by weight.

To choose ounces or pounds as the better estimate.

11-13 Grams and Kilograms (mass)—pp. 519-520

Objective(s): To choose grams or kilograms as the better estimate of mass.

*11-17A Measurement and Data (height)—Online

Objective(s): To collect measurement data to answer questions about a group of items.

Relate addition and subtraction to length.

2.MD.B.6 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.

11-2 Inches—pp. 493-494

Objective(s): To estimate and measure length and height in inches.

11-3 Half Inch—pp. 495–496

Objective(s): To measure lengths to the nearest half inch.

11-4 Feet and Yards—pp. 497-498

Objective(s): To estimate and measure length and height in feet and yards.

To choose inches, feet, or yards as the most appropriate unit of measure.

*11-4B Relate Addition and Subtraction to Length—Online

Objective(s): To find sums of lengths and differences in length.

To solve word problems involving lengths given the same

11-9 Centimeters—pp. 511–512

Objective(s): To estimate and measure length and height in centimeters.

11-10 Meters—pp. 513–514

Objective(s): To estimate and measure length and height in centimeters and meters.

11-19 Problem Solving Applications: Mixed Strategies—pp. 533–534

2.MD.B.7 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.

1-3 Related Addition Facts (number line)—pp. 7-8

Objective(s): To solve and write related addition facts.

1-4 Count On to Add—pp. 9–10

Objective(s): To use the count on strategy to find sums.

1-12 Count Back to Subtract—pp. 29–30

Objective(s): To use *count back* strategy to find differences from 12 or

1-16 Count Up to Subtract—pp. 39–40

Objective(s): To count up to subtract.

2-9 Order Using a Number Line—pp. 83-84

Objective(s): To compare and order numbers to 100.

8-2 Hundreds, Tens, and Ones (number line)—pp. 351–352

Objective(s): To read and write numbers and number words for 100-999.

To recognize place value of numbers to 999.

8-9 Round to the Nearest Hundred (number lines)—pp. 367–368

Objective(s): To round numbers to the nearest hundred.

*10-2A Whole Numbers and the Number Line—Online

Objective(s): To represent whole numbers as lengths from 0 on a number line.

To represent sums and differences (within 100) on a number line.



ARCHDIOCESE OF DETROIT: SECOND GRADE MATHEMATICS STANDARDS

Understand the Concept of Area and Perimeter

2.MD.C.8 Measure area using non-standard units to the nearest whole unit.

2.MD.C.9 Find the area of a rectangle with whole number side lengths by covering with unit squares and counting, or by using a grid of unit squares; write area as a product.

2.MD.C.10 Determine perimeter of rectangles and triangles by adding lengths of sides.

Work with time and money.

2.MD.C.11 Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.

2.MD.C.12 Using both AM and PM, tell time from the clock face in 1 minute intervals and from digital clocks to the minute; including reading time 9:15 as nine-fifteen and 9:50 as nine-fifty. Interpret time as both minutes after the hour and minutes before the next hour. Show times by drawing hand on clock faces.

2.MD.C.13 Use the concept of duration of time to the quarter hour.

2.MD.C.14 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?

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

11-12 Area-pp. 517-518

Objective(s): To estimate and find the area of a figure in square units

11-12 Area—pp. 517-518

Objective(s): To estimate and find the area of a figure in square units.

*11-12A Rectangles and Area—Online

Objective(s): To partition a rectangle into rows and columns of the same-size squares and to count to find the total number of them.

11-11 Perimeter—pp. 515-516

Objective(s): To measure the perimeter of a figure in inches and centimeters.

Skills Update: Clock Sense: Hours—p. J

7-10 Hour and Half Hour—pp. 313-314

Objective(s): To tell time to the hour and half hour.

7-11 Five Minutes—pp. 315–316

Objective(s): To tell time in 5-minute intervals.

*7-13A A.M. and P.M. — Online

Objective(s): To determine what part of the day a given time occurs.

To determine time expressed with A.M. and P.M.

To tell time from an analog and digital clock to the nearest five minutes.

*7-13A A.M. and P.M.—Online

Objective(s): To determine what part of the day a given time occurs.

To determine time expressed with A.M. and P.M.

To tell time from an analog and digital clock to the nearest five minutes.

7-14 Elapsed Time—pp. 323-324

Objective(s): To determine elapsed time.

To tell what time it will be given a length of time.

Ch. 7 Connection: Math and the Real World (A.M./P.M., elapsed time)—p. 336

Skills Update: Penny, Nickel, Dime-p. I

7-1 Pennies, Nickels, and Dimes—pp. 291–292

Objective(s): To find the value of a group of coins consisting of pennies, nickels, and dimes.

7-2 Quarters—pp. 293–294

Objective(s): To find the value of a group of pennies, nickels, dimes, and quarters.

7-3 Half Dollar—pp. 295–296

Objective(s): To find the value of a group of coins consisting of pennies, nickels, dimes, quarters, and a half dollar.

7-3 Half Dollar—pp. 295-296

Objective(s): To find the value of a group of coins consisting of pennies, nickels, dimes, quarters, and a half dollar.



ARCHDIOCESE OF DETROIT: SECOND GRADE MATHEMATICS STANDARDS

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

7-4 Equal Amounts—pp. 299–300

Objective(s): To show amounts of money in more than one way.

To find the fewest number of coins to equal a given amount.

7-5 Compare Money—pp. 301–302

Objective(s): To compare an amount of money to the cost of an item.

7-6 Make Change—pp. 303–304

Objective(s): To find the amount of change after making a purchase.

7-7 Add and Subtract Money—pp. 305–306

Objective(s): To apply regrouping in addition and subtraction of money.

7-8 One Dollar—pp. 307–308

Objective(s): To identify a dollar bill and dollar coin.

To count and find amounts of coins equal to a dollar.

7-9 Dollars and Cents—pp. 309–310

Objective(s): To identify the place value of money amounts.

To find the value of a group of bills and coins.

*7-9A Money Problems—Online

Objective(s): To solve word problems involving money (dollar bills, quarters, dimes, nickels, and pennies).

7-18 Problem Solving Strategy: Guess and Test—pp. 331–332

Objective(s): To use the Guess and Test strategy to solve a problem.

7-19 Problem Solving Applications: Mixed Strategies—pp. 333–334 **Read Aloud: "The Time Machine"** (value of groups of coins)—pp. 341-344

9-7 Add Money: No Regrouping—pp. 397–398

Objective(s): To add money amounts without regrouping.

9-8 Problem Solving: Read and Write in Math: Find Needed Information—pp. 399–400

Objective(s): To use the strategy of rereading to find information in a

9-9 Add Money: Regroup Dimes or Pennies—pp. 401–402

Objective(s): To add money amounts, regrouping once.

9-10 Add Money: Regroup Twice—pp. 403-404

Objective(s): To add money amounts, regrouping twice.

9-17 Subtract Money: Regroup Dollars or Dimes—pp. 421–422

Objective(s): To subtract money amounts, regrouping once.

9-18 Subtract Money: Regroup Twice—pp. 423–424

Objective(s): To subtract money amounts, regrouping twice

9-21 Problem Solving Applications: Mixed Strategies—pp. 429-430

Read Thermometers

2.MD.D.16 Read temperature using the scale on a thermometer in degrees Fahrenheit.

Represent and interpret data.

2.MD.E.17 Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by

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.

11-16 Temperature—pp. 527-528

Objective(s): To read a thermometer in degrees Fahrenheit and Celsius.

To compare temperatures.

3-9 Line Plots—pp. 133–134

Objective(s): To read and interpret line plots.

11-1 Nonstandard Units—pp. 491–492

Objective(s): To estimate and measure length using nonstandard units of measurement.

To compare and order objects by length.

11-2 Inches—pp. 493–494

Objective(s): To estimate and measure length and height in inches.



ARCHDIOCESE OF DETROIT: SECOND GRADE MATHEMATICS STANDARDS

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

11-3 Half Inch—pp. 495–496

Objective(s): To measure lengths to the nearest half inch.

11-4 Feet and Yards—pp. 497-498

Objective(s): To estimate and measure length and height in feet and

To choose inches, feet, or yards as the most appropriate unit of measure.

*11-4A Measure Length—Online

Objective(s): To describe how two different measurements of the same objects relate to the size of the unit chosen.

> To measure to find how much longer one object is than another.

11-9 Centimeters—pp. 511-512

Objective(s): To estimate and measure length and height in centimeters.

11-10 Meters—pp. 513–514

Objective(s): To estimate and measure length and height in centimeters and meters.

*11-17A Measurement and Data—Online

Objective(s): To collect measurement data to answer questions about a group of items.

3-2 Pictographs—pp. 117-118 Objective(s): To use information from a tally chart to make a pictograph. To read and interpret pictographs.

3-3 Bar Graphs—pp. 119–120

Skills Update: Tallying-p. E

Objective(s): To use information from a tally chart to make a bar graph. To read and interpret bar graphs.

3-4 Surveys—pp. 121–122

Objective(s): To gather, record, and interpret data. To construct questions for a survey.

3-5 Range, Mode, and Median—pp. 123-124

Objective(s): To find the range, mode, and median for given data. To describe data using range, mode, and median.

3-6 Understand Data—pp. 125-126

Objective(s): To predict future data based on present data.

3-7 Compare Data—pp. 129–130

Objective(s): To compare data from two different sources using the same survey.

3-11 Problem Solving Strategy: Use a Graph—pp. 137–138

Objective(s): To use information from a graph to solve a problem.

3-12 Problem Solving Applications: Mixed Strategies—pp. 139-140

2.MD.D.18 Draw a picture graph and a bar graph (with singleunit 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

ARCHDIOCESE OF DETROIT: SECOND GRADE MATHEMATICS STANDARDS

Reason with Shapes and their Attributes

2.G.A.1 Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

Skills Update: Plane Figures-p. H

6-1 Solid Figures—pp. 247-248

Objective(s): To identify cones, cubes, cylinders, pyramids, rectangular prisms, and spheres.

To identify flat and curved surfaces of solid figures.

6-2 Faces, Edges, Vertices—pp. 249-250

Objective(s): To identify the faces, edges, and vertices of solid figures.

6-3 Explore Plane Figures—pp. 251-252

Objective(s): To make plane figures by tracing flat surfaces of solid figures.

To identify circle, triangle, rectangle, and square.

6-4 Plane Figures—pp. 253–254

Objective(s): To identify the number of sides, vertices, and angles of closed plane figures.

*6-4A Identify and Draw Plane Figures—Online

Objective(s): To identify triangles, quadrilaterals, pentagons, and hexagons.

To draw and identify the side attributes of closed plane figures.

*6-4B Attributes of Plane Figures—Online

Objective(s): To identify the side, angle, and vertex attributes of triangles, quadrilaterals, pentagons, and hexagons.

To draw closed plane figures with a stated set of attributes.

6-5 Sort Figures-pp. 255-256

Objective(s): To sort plane figures and solid figures by one and two attributes.

6-11 Ways to Make Figures—pp. 271–272

Objective(s): To combine and separate figures to form other figures.

To predict the results of combining or separating figures.

6-12 Problem Solving: Read and Write in Math: Understand Math Words—pp. 273–274

Objective(s): To understand math words in order to solve math problems.

6-15 Problem Solving Applications: Mixed Strategies—pp. 279–280

11-12 Area—pp. 517-518

Objective(s): To estimate and find the area of a figure in square units.

*11-12A Rectangles and Area—Online

Objective(s): To partition a rectangle into rows and columns of the same-size squares and to count to find the total number of them.

Skills Update: Equal Parts—p. K

10-1 Fractions: 1/2, 1/4, 1/8—p. 445

Objective(s): To identify the fractions 1/2, 1/4, and 1/8.

To write a fraction for the shaded part of a figure.

*10-1A Fractions: 1/2, 1/3, 1/4—Online

Objective(s): To identify unit fractions for halves, thirds, and fourths.

To partition shapes into halves, thirds, and fourths.

10-2 More Fractions—pp. 447–448

Objective(s): To identify the fractions 1/3, 1/5, 1/6, 1/7, 1/9, 1/10, 1/11, 1/12.

To write a fraction for the shaded part of a figure.

2.G.A.2 Partition a rectangle into rows and columns of same-size squares and count to find the total number of them.

2.G.A.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.



Geometry

2.G.A.4

2.G.A.5

2.G.A.6

2.G.A.7

prisms.

dimensional shapes.

ARCHDIOCESE OF DETROIT: SECOND GRADE MATHEMATICS STANDARDS

Identify, describe and compare familiar three-

dimensional shapes, such as spheres and rectangular

Explore and predict the results of putting together

Distinguish between curves and straight lines and

between curved surfaces and flat surfaces.

Classify familiar plane and solid objects.

and taking apart two-dimensional and three-

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

10-3 Compare Fractions—pp. 449–450

Objective(s): To use the greater than, less than, and equals signs to compare unit fractions.

10-4 Order Fractions—pp. 451–452

Objective(s): To use models to order unit fractions.

10-5 Other Fractions—pp. 453-454

Objective(s): To recognize and write non-unit fractions.

To write the fraction for the shaded part of a figure.

10-6 Fractions Equal to 1—pp. 457–458

Objective(s): To recognize and write fractions equal to 1.

10-8 Equal Fractions of a Whole—pp. 461–462

Objective(s): To show equal fractions of a whole.

10-16 Problem Solving Applications: Mixed Strategies—p. 480 **Connection: Math and Social Studies** (hopscotch boards/equal

parts)—p. 482

6-1 Solid Figures—pp. 247-248

Objective(s): To identify cones, cubes, cylinders, pyramids, rectangular prisms, and spheres.

To identify flat and curved surfaces of solid figures.

6-11 Ways to Make Figures—pp. 271-272

Objective(s): To combine and separate figures to form other figures.

To predict the results of combining or separating figures.

*Putting together and taking apart three-dimensional shapes is presented in Grade 3: Ch. 9 Enrichment: Complex Solid Figures—p. 331.

6-1 Solid Figures—pp. 247–248

Objective(s): To identify cones, cubes, cylinders, pyramids, rectangular prisms, and spheres.

To identify flat and curved surfaces of solid figures.

6-1 Solid Figures—pp. 247-248

Objective(s): To identify cones, cubes, cylinders, pyramids, rectangular prisms, and spheres.

To identify flat and curved surfaces of solid figures.

6-2 Faces, Edges, Vertices—pp. 249–250

Objective(s): To identify the faces, edges, and vertices of solid figures.

6-3 Explore Plane Figures—pp. 251-252

Objective(s): To make plane figures by tracing flat surfaces of solid figures.

To identify circle, triangle, rectangle, and square.

6-4 Plane Figures—pp. 253-254

Objective(s): To identify the number of sides, vertices, and angles of closed plane figures.

*6-4A Identify and Draw Plane Figures—Online

Objective(s): To identify triangles, quadrilaterals, pentagons, and hexagons.

To draw and identify the side attributes of closed plane figures.

*6-4B Attributes of Plane Figures—Online

Objective(s): To identify the side, angle, and vertex attributes of triangles, quadrilaterals, pentagons, and hexagons.

To draw closed plane figures with a stated set of attributes.



Geometry

ARCHDIOCESE OF DETROIT: SECOND GRADE MATHEMATICS STANDARDS

2.G.A.8 Recognize that shapes that have been slid, turned, or flipped are the same shape.

Use Coordinate Systems

2.G.B.9 Find and name locations using simple coordinate systems such as maps and first quadrant grids.

SADLIER PROGRESS IN MATHEMATICS, GRADE 2

6-8 Slides and Flips—pp. 263–264 Objective(s): To identify slides and flips.

6-9 Turns—pp. 265–266

Objective(s): To identify turns and distinguish them from slides and flips.

6-13 Ordered Pairs—pp. 275–276

Objective(s): To locate ordered pairs on a coordinate grid.