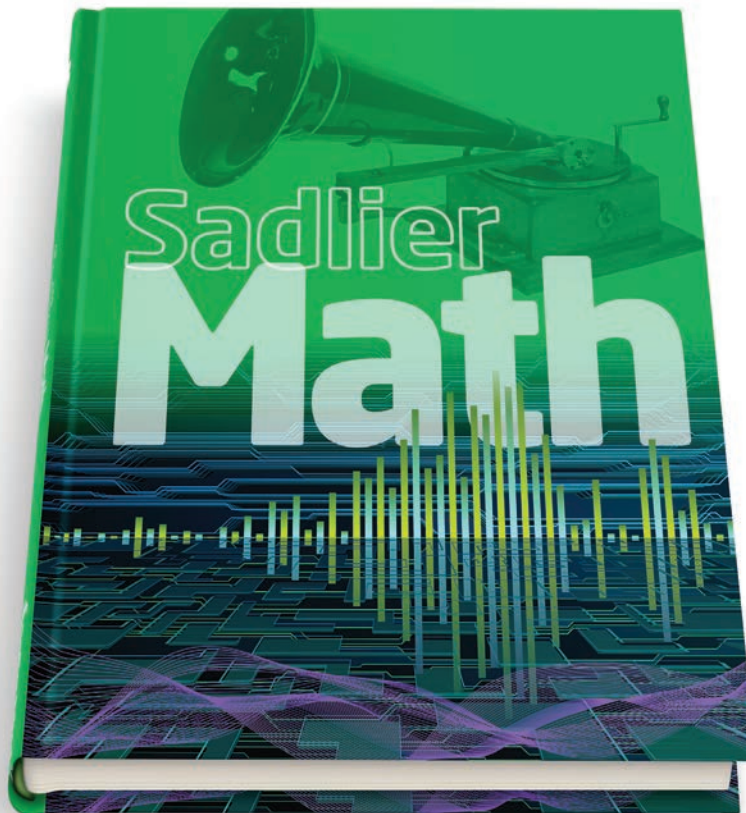


Sadlier Math™

Correlation to the Diocese of Grand Rapids
Office of Catholic Schools Curriculum for Mathematics

Grade 3



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NUMBER	
Third Grade Mathematics Standards	Sadlier Math, Grade 3
3.Math.N.1 Use a number line to locate and compare (less than, greater than, equal to) whole numbers and commonly used fractions.	<p>Chapter 9: 9-3 & 9-5</p> <ul style="list-style-type: none"> • 9-3 Find Unit Fractions on a Number Line—pp. 192-193 • 9-5 Find Fractions on a Number Line—pp. 198-199 <p>Chapter 10: 10-3 through 10-6</p> <ul style="list-style-type: none"> • 10-3 Find Equivalent Fractions on a Number Line—pp. 214-215 • 10-4 Compare Fractions with the Same Denominator—pp. 218-219 • 10-5 Compare Fractions with the Same Numerator—pp. 220-221 • 10-6 Order Fractions—pp. 222-223
3.Math.N.2 Develop and use strategies to estimate computations involving fractions relevant to students' experience.	<p>See Grade 4</p> <p>Chapter 11: 11-2 through 11-5, 11-7 & 11-8</p> <ul style="list-style-type: none"> • 11-2 Add Fractions: Like Denominators—pp. 226-227 • 11-3 Decompose Fractions as Sums of Unit Fractions—pp. 228-229 • 11-4 Use Models to Subtract Fractions—pp. 230-231 • 11-5 Subtract Fractions: Like Denominators—pp. 232-233 • 11-7 Add Mixed Numbers: Like Denominators—pp. 238-239 • 11-8 Subtract Mixed Numbers: Like Denominators—pp. 240-241
3.Math.N.3 Use whole numbers rounded to the nearest 10 or 100 to determine the reasonableness of a whole number computation.	<p>Chapter 1: 1-4 through 1-6</p> <ul style="list-style-type: none"> • 1-4 Round Numbers to the Nearest Ten—pp. 10-11 • 1-5 Round Numbers to the Nearest Hundred—pp. 12-13 • 1-6 Problem Solving: Use a Four-Step Process (reasonable sum)—pp. 14-15 <p>Chapter 2: 2-5 through 2-7</p> <ul style="list-style-type: none"> • 2-5 Use Place Value to Add: Regroup Once (answer is reasonable)—pp. 32-33 • 2-6 Use Place Value to Add: Regroup Twice (reasonable estimates)—pp. 34-35 • 2-7 Add with Three or More Addends (answer is reasonable)—pp. 36-37 <p>Chapter 3: 3-4 through 3-5</p> <ul style="list-style-type: none"> • 3-4 Subtract Three-Digit Numbers (reasonable estimates)—pp. 54-55 • 3-5 Subtract Across Zeros (reasonable estimates)—pp. 56-57
3.Math.N.4 Use inverse operations to solve problems.	<p>Chapter 3: 3-1, 3-2 & 3-6</p> <ul style="list-style-type: none"> • 3-1 Estimate Differences—pp. 46-47 • 3-2 Relate Addition and Subtraction—pp. 48-49 • 3-6 Problem Solving: Read and Understand—pp. 58-59 <p>Chapter 7: 7-1</p> <ul style="list-style-type: none"> • 7-1 Relate Multiplication and Division—pp. 142-143
3.Math.N.5 Develop fluency of multiplication and division of whole numbers within 100.	<p>Chapter 5: 5-1 through 5-6</p> <ul style="list-style-type: none"> • 5-1 Multiply by 2—pp. 88-89 • 5-2 Multiply by 5—pp. 90-91 • 5-3 Multiply by 9—pp. 92-93 • 5-4 Multiply by 1 and 0—pp. 96-97 • 5-5 Multiply by 10—pp. 98-99 • 5-6 Find Patterns in the Multiplication Table—pp. 100-101 <p style="text-align: right;"><i>continued</i></p>

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Third Grade Mathematics Standards	Sadlier Math, Grade 3
	<p>Chapter 6: 6-1 through 6-6</p> <ul style="list-style-type: none"> • 6-1 Break Apart to Multiply—pp. 112-113 • 6-2 Multiply by 3—pp. 114-115 • 6-3 Multiply by 4—pp. 116-117 • 6-4 Multiply by 6—pp. 118-119 • 6-5 Multiply by 7—pp. 120-121 • 6-6 Multiply by 8—pp. 122-123 <p>Chapter 7: 7-2 through 7-5</p> <ul style="list-style-type: none"> • 7-2 Divide by 2—pp. 144-145 • 7-3 Divide by 3—pp. 146-147 • 7-4 Divide by 4—pp. 150-151 • 7-5 Divide by 5—pp. 152-153 <p>Chapter 8: 8-1 through 8-5</p> <ul style="list-style-type: none"> • 8-1 Divide by 6—pp. 162-163 • 8-2 Divide by 7—pp. 164-165 • 8-3 Divide by 8—pp. 166-167 • 8-4 Divide by 9—pp. 168-169 • 8-5 One and Zero in Division—pp. 172-173
<p>3.Math.N.6 Use basic number combinations for multiplication and division to mentally compute related problems.</p>	<p>Chapter 5: 5-1 through 5-6</p> <ul style="list-style-type: none"> • 5-1 Multiply by 2—pp. 88-89 • 5-2 Multiply by 5—pp. 90-91 • 5-3 Multiply by 9—pp. 92-93 • 5-4 Multiply by 1 and 0—pp. 96-97 • 5-5 Multiply by 10—pp. 98-99 • 5-6 Find Patterns in the Multiplication Table—pp. 100-101 <p>Chapter 6: 6-1 through 6-7, 6-9 through 6-11</p> <ul style="list-style-type: none"> • 6-1 Break Apart to Multiply—pp. 112-113 • 6-2 Multiply by 3—pp. 114-115 • 6-3 Multiply by 4—pp. 116-117 • 6-4 Multiply by 6—pp. 118-119 • 6-5 Multiply by 7—pp. 120-121 • 6-6 Multiply by 8—pp. 122-123 • 6-7 Use a Bar Model to Multiply—pp. 126-127 • 6-9 Use the Associative Property to Multiply—pp. 130-131 • 6-10 Find More Multiplication Patterns—pp. 132-133 • 6-11 Multiply by Multiples of 10—pp. 134-135 <p>Chapter 7: 7-1 through 7-5</p> <ul style="list-style-type: none"> • 7-1 Relate Multiplication and Division—pp. 142-143 • 7-2 Divide by 2—pp. 144-145 • 7-3 Divide by 3—pp. 146-147 • 7-4 Divide by 4—pp. 150-151 • 7-5 Divide by 5—pp. 152-153 <p>Chapter 8: 8-1 through 8-5, 8-7 & 8-8</p> <ul style="list-style-type: none"> • 8-1 Divide by 6—pp. 162-163 • 8-2 Divide by 7—pp. 164-165 • 8-3 Divide by 8—pp. 166-167 • 8-4 Divide by 9—pp. 168-169 • 8-5 One and Zero in Division—pp. 172-173 • 8-7 Fact Families—pp. 176-177 • 8-8 Use Facts to Solve Problems—pp. 178-179

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NUMBER	
Third Grade Mathematics Standards	<i>Sadlier Math, Grade 3</i>
<p>3.Math.N.7 Select and apply the best method to solve word problems.</p>	<p>Problem Solving Math Practices</p> <ul style="list-style-type: none"> • A Four-Step Process—p. xxi • Make sense of problems/Use reasoning—p. xxii • Explain your reasoning/Model with mathematics—p. xxiii • Use the right tools/Be precise—p. xxiv • Look for a pattern—p. xxv <p>Problem Solving Strategies</p> <ul style="list-style-type: none"> • Make and Use a Plan—p. xxvi • Work Backward—p. xxvii • Use Logical Reasoning—p. xxviii • Read and Understand—p. xxix • Write and Solve an Equation—p. xxx <p>Chapter 1: 1-6</p> <ul style="list-style-type: none"> • 1-6 Problem Solving: Use a Four-Step Process—pp. 14-15 <p>Chapter 2: 2-8</p> <ul style="list-style-type: none"> • 2-8 Problem Solving: Use a Model—pp. 38-39 <p>Chapter 3: 3-6</p> <ul style="list-style-type: none"> • 3-6 Problem Solving: Read and Understand—pp. 58-59 <p>Chapter 4: 4-7</p> <ul style="list-style-type: none"> • 4-7 Problem Solving: Write an Equation—pp. 80-81 <p>Chapter 5: 5-8</p> <ul style="list-style-type: none"> • 5-8 Problem Solving: Compare Models—pp. 104-105 <p>Chapter 6: 6-8</p> <ul style="list-style-type: none"> • 6-8 Problem Solving: Make a Table—pp. 128-129 <p>Chapter 7: 7-6</p> <ul style="list-style-type: none"> • 7-6 Problem Solving: Use Drawings to Solve Problems—pp. 154-155 <p>Chapter 8: 8-6</p> <ul style="list-style-type: none"> • 8-6 Problem Solving: Work Backward—pp. 174-175 <p>Chapter 9: 9-7</p> <ul style="list-style-type: none"> • 9-7 Problem Solving: Use a Model—pp. 202-203 <p>Chapter 10: 10-7</p> <ul style="list-style-type: none"> • 10-7 Problem Solving: Act It Out—pp. 224-225 <p>Chapter 11: 11-6</p> <ul style="list-style-type: none"> • 11-6 Problem Solving: Write an Equation—pp. 244-245 <p>Chapter 12: 12-6</p> <ul style="list-style-type: none"> • 12-6 Problem Solving: Compare Models—pp. 264-265 <p>Chapter 13: 13-5</p> <ul style="list-style-type: none"> • 13-5 Problem Solving: Use Logical Reasoning—pp. 286-287 <p>Chapter 14: 14-5</p> <ul style="list-style-type: none"> • 14-5 Problem Solving: Choose a Strategy—pp. 304-305 <p>Chapter 15: 15-6</p> <ul style="list-style-type: none"> • 15-6 Problem Solving: Guess and Test—pp. 324-325 <p>Chapter 16: 16-4</p> <ul style="list-style-type: none"> • 16-4 Problem Solving: Compare Strategies—pp. 340-341

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NUMBER

Third Grade Mathematics Standards	<i>Sadlier Math, Grade 3</i>
<p>3.Math.N.8 Solve problems with multiple steps involving any combination of addition, subtraction, multiplication, and division, including those with solutions that are not whole numbers.</p>	<p>Chapter 3: 3-6</p> <ul style="list-style-type: none"> 3-6 Problem Solving: Read and Understand (two-step problems)—pp. 58-59 <p>Chapter 6: 6-8</p> <ul style="list-style-type: none"> 6-8 Problem Solving: Make a Table (two-step problems)—pp. 128-129 <p>Chapter 8: 8-6</p> <ul style="list-style-type: none"> 8-6 Problem Solving: Work Backward (solve multistep problems)—pp. 174-175 <p>Chapter 12: 12-5</p> <ul style="list-style-type: none"> 12-5 Data and Two-Step Problems—pp. 260-261
<p>3.Math.N.9 Create and use models and drawings to describe multiplication and division of whole numbers up to 100.</p>	<p>Chapter 4: 4-1 through 4-6</p> <ul style="list-style-type: none"> 4-1 Represent Multiplication as Repeated Addition—pp. 66-67 4-2 Represent Multiplication on a Number Line—pp. 68-69 4-3 Represent Multiplication as Arrays—pp. 70-71 4-4 Multiply with the Commutative Property—pp. 74-75 4-5 Represent Division by Sharing—pp. 76-77 4-6 Represent Division by Repeated Subtraction—pp. 78-79

ALGEBRA

Third Grade Mathematics Standards	<i>Sadlier Math, Grade 3</i>
<p>3.Math.A.1 Apply the commutative, associative, and distributive properties of operations to compute with whole numbers.</p>	<p>Chapter 2: 2-1</p> <ul style="list-style-type: none"> 2-1 Use Addition Properties—pp. 22-23 <p>Chapter 4: 4-4</p> <ul style="list-style-type: none"> 4-4 Multiply with the Commutative Property—pp. 74-75 <p>Chapter 6: 6-1, 6-3 through 6-5, 6-9 through 6-11</p> <ul style="list-style-type: none"> 6-1 Break Apart to Multiply (distributive property)—pp. 112-113 6-3 Multiply by 4—pp. 116-117 6-4 Multiply by 6 (commutative property)—pp. 118-119 6-5 Multiply by 7 (commutative property)—pp. 120-121 6-9 Use the Associative Property to Multiply—pp. 130-131 6-10 Find More Multiplication Patterns—pp. 132-133 6-11 Multiply by Multiples of 10 (associative/distributive properties)—pp. 134-135 <p>Chapter 15: 15-4</p> <ul style="list-style-type: none"> 15-4 Find Area Using the Distributive Property—pp. 320-321 <p>Chapter 16: 16-1</p> <ul style="list-style-type: none"> 16-1 Understand Perimeter (associative property)—pp. 332-333

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ALGEBRA	
Third Grade Mathematics Standards	<i>Sadlier Math, Grade 3</i>
<p>3.Math.A.2 Describe and extend geometric and numeric patterns.</p>	<p>Problem Solving Math Practices</p> <ul style="list-style-type: none"> • Look for a pattern—p. xxv <p>Chapter 2: 2-2</p> <ul style="list-style-type: none"> • 2-2 Explore Addition Patterns—pp. 24-25 <p>Chapter 5: 5-6</p> <ul style="list-style-type: none"> • 5-6 Find Patterns in the Multiplication Table—pp. 100-101 <p>Chapter 6: 6-10</p> <ul style="list-style-type: none"> • 6-10 Find More Multiplication Patterns—pp. 132-133 <p>Chapter 10: 10-1</p> <ul style="list-style-type: none"> • 10-1 Whole Numbers and Fractions (describe patterns)—pp. 210-211 <p>Chapter 14: 14-5</p> <ul style="list-style-type: none"> • 14-5 Problem Solving: Choose a Strategy (describe pattern)—pp. 304-305
GEOMETRY	
Third Grade Mathematics Standards	<i>Sadlier Math, Grade 3</i>
<p>3.Math.G.1 Identify, compare, and analyze properties of 2D and 3D shapes to classify them.</p>	<p>Chapter 14: 14-1 through 14-3</p> <ul style="list-style-type: none"> • 14-1 Classify Polygons—pp. 294-295 • 14-2 Classify Quadrilaterals—pp. 296-297 • 14-3 Draw Quadrilaterals—pp. 298-299 <p>See also Grade 2</p> <p>Chapter 13: 13-3 & 13-4</p> <ul style="list-style-type: none"> • 13-3 Identify Three-Dimensional Shapes—pp. 565-568 • 13-4 Faces, Edges, Vertices—pp. 569-572
<p>3.Math.G.2 Identify and describe line and rotational symmetry in 2D and 3D shapes and designs.</p>	<p>See Grade 4</p> <p>Chapter 17: 17-4</p> <ul style="list-style-type: none"> • 17-4 Symmetry—pp. 376-377 <p>See also Grade 6</p> <p>Chapter 9: 9-8</p> <ul style="list-style-type: none"> • 9-8 Reflections of Points (Develop Concepts: Symmetry)—pp. 212-213
<p>3.Math.G.3 Describe the results of subdividing, combining, and transforming shapes.</p>	<p>Chapter 14: 14-4</p> <ul style="list-style-type: none"> • 14-4 Compose and Decompose Shapes—pp. 302-303

MEASUREMENT	
Third Grade Mathematics Standards	Sadlier Math, Grade 3
<p>3.Math.M.1 Determine the perimeter and area of regular shapes using standard units.</p>	<p>Chapter 15: 15-1 through 15-4</p> <ul style="list-style-type: none"> 15-1 Understand Area—pp. 312-313 15-2 Find Area Using Standard Units—pp. 314-315 15-3 Find the Area of a Rectangle and a Square—pp. 316-317 15-4 Find Area Using the Distributive Property—pp. 320-321 <p>Chapter 16: 16-1 through 16-3</p> <ul style="list-style-type: none"> 16-1 Understand Perimeter—pp. 332-333 16-2 Find Perimeter—pp. 334-335 16-3 Find Unknown Side Lengths—pp. 336-337
<p>3.Math.M.2 Describe what happens to measurements of a 2D shape, such as its perimeter and area, when the shape is changed in some way.</p>	<p>Chapter 16: 16-5 & 16-6</p> <ul style="list-style-type: none"> 16-5 Same Perimeter, Different Areas—pp. 342-343 16-6 Same Area, Different Perimeters—pp. 344-345
<p>3.Math.M.3 Show how differences in units affect precision.</p>	<p>Chapter 11: 11-1 through 11-4</p> <ul style="list-style-type: none"> 11-1 Measure Length—pp. 232-233 11-2 Estimate and Measure Liquid Volume—pp. 234-235 11-3 Operations with Liquid Volume—pp. 236-237 11-4 Estimate and Measure Mass—pp. 240-241
<p>3.Math.M.4 Solve problems involving perimeters of 2D shapes, including various non-regular polygons.</p>	<p>Chapter 16: 16-1 through 16-6</p> <ul style="list-style-type: none"> 16-1 Understand Perimeter—pp. 332-333 16-2 Find Perimeter—pp. 334-335 16-3 Find Unknown Side Lengths—pp. 336-337 16-4 Problem Solving: Compare Strategies—pp. 340-341 16-5 Same Perimeter, Different Areas—pp. 342-343 16-6 Same Area, Different Perimeters—pp. 344-345
DATA ANALYSIS	
Third Grade Mathematics Standards	Sadlier Math, Grade 3
<p>3.Math.D.1 Compare different representations of the same data and evaluate how well each representation shows important aspects of the data.</p>	<p>Chapter 12: 12-1 through 12-5, 12-7 & 12-8</p> <ul style="list-style-type: none"> 12-1 Read Picture Graphs—pp. 252-253 12-2 Make Picture Graphs—pp. 254-255 12-3 Read Bar Graphs—pp. 256-257 12-4 Make Bar Graphs—pp. 258-259 12-5 Data and Two-Step Problems—pp. 260-261 12-7 Read Line Plots—pp. 266-267 12-8 Make Line Plots—pp. 268-269
<p>3.Math.D.2 Describe events as likely or unlikely using words such as certain, equally likely, and impossible.</p>	<p>See Grade 6</p> <p>Chapter 18: 18-3</p> <ul style="list-style-type: none"> 18-3 Probability and Likelihood—online

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