# Fifth Grade Math Curriculum

| Lessons | Domain | Standards |
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| **Chapter 1:**<br>Place Value, Multiplication, and Expression<br>1. Place Value and Patterns<br>2. Place Value of Whole Numbers<br>3. Algebra * Properties<br>4. Algebra * Powers of 10 and Exponents<br>5. Algebra * Multiplication Patterns<br>6. Multiply by 1-Digit Numbers<br>7. Multiply by 2-Digit Numbers<br>8. Relate Multiplication to Division<br>9. Problem Solving * Multiplication and Division<br>10. Algebra * Numerical Expressions<br>11. Algebra * Evaluate Numerical Expressions<br>12. Algebra * Grouping Symbols | • Number and Operations in Base Ten (5.NBT)<br>• Operations and Algebraic Thinking (5.OA) | 5.NBT.1<br>5.NBT.2<br>5.NBT.5<br>5.NBT.6<br>5.OA.1<br>5.OA.2 |
| **Chapter 2:**<br>Divide Whole Numbers<br>1. Place the First Digit<br>2. Divide by 1-Digit Divisors<br>3. Divide with 2-Digit Divisors<br>4. Partial Quotients<br>5. Estimate with 2-Digit Divisors<br>6. Divide by 2-Digit Divisors<br>7. Interpret Remainder<br>8. Adjust Quotients<br>9. Problem Solving * Division | • Number and Operations in Base Ten (5.NBT)<br>• Number and Operations - Fractions (5.NF) | 5.NBT.6<br>5.NF.3 |
| **Chapter 3:**<br>Add and Subtract Decimals<br>1. Investigate * Thousandths<br>2. Place Value of Decimals<br>3. Round Decimals<br>4. Investigate * Decimal Addition<br>5. Investigate * Decimal Subtraction<br>6. Estimate Decimal Sums and Differences<br>7. Add Decimals<br>8. Subtract Decimals<br>9. Algebra * Patterns with Decimals<br>10. Problem Solving * Add and Subtract Money<br>11. Choose a Method | • Number and Operations in Base Ten (5.NBT) | 5.NBT.1<br>5.NBT.3b<br>5.NBT.4<br>5.NBT.7 |
| **Chapter 4:**<br>Multiply Decimals<br>1. Algebra * Multiplication Patterns with Decimals<br>2. Investigate * Multiply Decimals and Whole Numbers | • Number and Operations in Base Ten (5.NBT) | 5.NBT.2<br>5.NBT.7 |

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| 3. Multiplication with Decimals and Whole Numbers<br>4. Multiply Using Expanded Form<br>5. Problem Solving * Multiply Money<br>6. Investigate * Decimal Multiplication<br>7. Multiply Decimals<br>8. Zeros in the Product | | |
| **Chapter 5:**<br>Divide Decimals<br>1. Algebra * Division with Decimals<br>2. Investigate * Divide Decimals by Whole Numbers<br>3. Estimate Quotients<br>4. Division of Decimals by Whole Numbers<br>5. Investigate * Decimal Division<br>6. Divide Decimals<br>7. Write Zeros in the Dividend<br>8. Problem Solving * Decimal Operations | • Number and Operations in Base Ten (5.NBT) | 5.NBT.2<br>5.NBT.7 |
| **Chapter 6:**<br>Add and Subtract Fractions with Unlike Denominators<br>1. Investigate * Addition with Unlike Denominators<br>2. Investigate * Subtraction with Unlike Denominators<br>3. Estimate Fraction Sums and Differences<br>4. Factors<br>5. Common Denominator and Equivalent Fractions<br>6. Add and Subtract Fractions<br>7. Add and Subtract Mixed Numbers<br>8. Subtraction with Renaming<br>9. Algebra * Patterns with Fractions<br>10. Problem Solving * Practice Addition and Subtraction<br>11. Algebra * Use Properties of Addition | • Number and Operations - Fractions (5.NF)<br>• Operations and Algebraic Thinking (5.OA) | 5.NF.1<br>5.NF.2<br>5.OA.2.1 |
| **Chapter 7:**<br>Multiply Fractions<br>1. Find Part of a Group<br>2. Investigate * Multiply Fractions and Whole Numbers<br>3. Fraction and Whole Number Multiplication<br>4. Investigate * Multiply Fractions<br>5. Compare Fraction Factors and Products<br>6. Fraction Multiplication<br>7. Investigate * Are and Mixed Numbers<br>8. Compare Mixed Number Factors and Products<br>9. Multiply Mixed Numbers<br>10. Problem Solving * Find Unknown Lengths | • Number and Operations - Fractions (5.NF) | 5.NF.4<br>5.NF.5<br>5.NF.6 |

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| **Chapter 8:**<br>Divide Fractions<br>  1. Investigate * Divide fractions and Whole Numbers<br>  2. Problem Solving * Use Multiplication<br>  3. Connect Fractions to Division<br>  4. Fraction and Whole – Number Division<br>  5. Interpret Division with Fractions | • Number and Operations - Fractions (5.NF) | 5.NF.3<br>5.NF.7 |
| **Chapter 9:**<br>Algebra * Patterns and Graphing<br>  1. Line Plots<br>  2. Ordered Pairs<br>  3. Investigate * Graph Data<br>  4. Line Graphs<br>  5. Numerical Patterns<br>  6. Problem Solving * Find a Rule<br>  7. Graph and Analyze Relationships | • Measurement and Data (5.MD)<br>• Geometry (5.G)<br>• Operations and Algebraic Thinking (5.OA) | 5.MD.2<br>5.G.1<br>5.G.2<br>5.OA.3 |
| **Chapter 10:**<br>Convert Units of Measure<br>  1. Customary Lengths<br>  2. Customary Capacity<br>  3. Weight<br>  4. Multistep Measurement Problems<br>  5. Problem Solving * Customary and Metric Conversions<br>  6. Elapsed Time | • Measurement and Data (5.MD) | 5.MD.1 |
| **Chapter 11:**<br>Geometry and Volume<br>  1. Polygons<br>  2. Triangles<br>  3. Quadrilaterals<br>  4. Three-Dimensional Figures<br>  5. Investigate * Unit Cubes and Solid Figures<br>  6. Investigate * Understand Volume<br>  7. Investigate * Estimate Volumes<br>  8. Volume of Rectangular Prisms<br>  9. Algebra * Apply Volume Formulas<br>  10. Problem Solving * Compare Volumes<br>  11. Find Volume of Composed Figures | • Measurement and Data (5.MD)<br>• Geometry (5.G) | 5.MD.3<br>5.MD.4<br>5.MD.5<br>5.G.3<br>5.G.4 |