**Coherence Links by Module**

**Grade 5**

| **Module 1: Place Value and Decimal Fractions** | | | | |
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| **Topic A:** Multiplicative Patterns on Place Value Chart  (Lessons 1-3) | **Coherence Links from:** | | **G4-M1** Place Value, Rounding and Algorithm for Addition and Subtraction | |
| **Coherence Links to:** | | **N/A** | |
| **Topic B:** Decimal Fractions and Place Value Patterns  (Lessons 4-5) | **Coherence Links from:** | | **G4-M1** Place Value, Rounding and Algorithm for Addition and Subtraction | |
| **Coherence Links to:** | | **N/A** | |
| **Topic C:** Place Value and Rounding Decimal Fractions  (Lessons 6-7) | **Coherence Links from:** | | **G4-M1** Place Value, Rounding and Algorithm for Addition and Subtraction | |
| **Coherence Links to:** | | **N/A** | |
| **Topic D:** Adding and Subtracting Decimals  (Lessons 8-9) | **Coherence Links from:** | | **G4-M1** Place Value, Rounding and Algorithm for Addition and Subtraction | |
| **Coherence Links to:** | | **N/A** | |
| **Topic E:** Multiplying Decimals  (Lessons 10-11) | **Coherence Links from:** | | **G4-M3** Multi-Digit Multiplication and Division | |
| **Coherence Links to:** | | **G5-M2** Multi-Digit Number and Decimal Fraction Operations | |
| **Topic F:** Dividing Decimals  (Lessons 12-15) | **Coherence Links from:** | | **G4-M3** Multi-Digit Multiplication and Division | |
| **Coherence Links to:** | | **G5-M2** Multi-Digit Number and Decimal Fraction Operations | |
| **Module 2: Multi-Digit Whole Number and Decimal Fraction Operations** | | | | |
| **Topic A:** Prime and Composite Numbers  (Lessons 1-4) | **Coherence Links from:** | | **G3-M3** Multiplication and Division with Units of 0, 1, 6-9, and Multiples of 10  **G4-M3** Multi-Digit Multiplication and Division | |
| **Coherence Links to:** | | **G5-M3** Addition and Subtraction of Fractions | |
| **Topic B:** Mental Strategies for Multi-Digit Whole Number Multiplication  (Lessons 5-6) | **Coherence Links from:** | | **G4-M3** Multi-Digit Multiplication and Division | |
| **Coherence Links to:** | | **G5-M5** Addition and Multiplication with Volume and Area | |
| **Topic C:** The Standard Algorithm for Multi-Digit Whole Number Multiplication  (Lessons 7-13) | **Coherence Links from:** | | **G4-M3** Multi-Digit Multiplication and Division | |
| **Coherence Links to:** | | **N/A** | |
| **Topic D:** Decimal Multi-Digit Multiplication  (Lessons 14-16) | **Coherence Links from:** | | **G5-M1** Place Value and Decimal Fractions | |
| **Coherence Links to:** | | **G5-M4** Multiplication and Division of Fraction | |
| **Topic E:** Measurement Word Problems with Whole Number Division  (Lesson 17-19) | **Coherence Links from:** | | **G4-M2** Unit Conversions and Problem Solving with Metric Measurements | |
| **Coherence Links to:** | | **N/A** | |
| **Topic F:** Mental Strategies for Multi-Digit Whole Number Division  (Lessons 20-22) | **Coherence Links from:** | | **G4-M3** Multi-Digit Multiplication and Division  **G5-M1** Place Value and Decimal Fraction | |
| **Coherence Links to:** | | **G5-M4** Multiplication and Division of Fraction | |
| **Topic G**: Partial Quotients and Multi-Digit Decimal Division  (Lessons 23-27) | **Coherence Links from:** | | **G4-M3** Multi-Digit Multiplication and Division | |
| **Coherence Links to:** | | **G6-M2** Arithmetic Operations Including Dividing by a Fraction | |
| **Topic H:** Partial Quotients and Multi-Digit Decimal Division  (Lessons 28-31) | **Coherence Links from:** | | **G5-M1** Place Value and Decimal Fraction | |
| **Coherence Links to:** | | **N/A** | |
| **Topic I**: Measurement Word Problems with Multi-Digit Division  (Lessons 32-33) | **Coherence Links from:** | | **G4-M3** Multi-Digit Multiplication and Division | |
| **Coherence Links to:** | | **N/A** | |
| **Module 3: Addition and Subtraction of Fractions** | | | | |
| **Topic A:** Making Like Units Pictorially  (Lessons 1-5) | **Coherence Links from:** | | **G4-M5** Fraction Equivalence, Ordering, and Operations | |
| **Coherence Links to:** | | **G5-M4** Multiplication and Division of Fractions | |
| **Topic B**: Making Like Units Numerically  (Lessons 6-10) | **Coherence Links from:** | | **G4-M5** Fraction Equivalence, Ordering, and Operations | |
| **Coherence Links to:** | | **G5-M1** Place Value and Decimal Fraction  **G5-M4** Multiplication and Division of Fractions | |
| **Topic C:** Further Application  (Lessons 11-14) | **Coherence Links from:** | | **G4-M5** Fraction Equivalence, Ordering, and Operations | |
| **Coherence Links to:** | | **G5-M1** Place Value and Decimal Fraction  **G5-M4** Multiplication and Division of Fractions | |
| **Module 4: Multiplication and Division of Fractions** | | | | |
| **Topic A:** Repeated Addition of Fractions as Multiplication  (Lessons 1-7 | **Coherence Links from:** | | **G3-M5** Fractions as Numbers on the Number Line  **G5-M3** Addition and Subtraction of Fractions | |
| **Coherence Links to:** | | **N/A** | |
| **Topic B:**Multiplication of a Whole Number by a Fraction  (Lessons 8-11) | **Coherence Links from:** | | **G4-M5** Fraction Equivalence, Ordering, and Operations | |
| **Coherence Links to:** | | **N/A** | |
| **Topic C:** Fraction Expressions and Word Problems  (Lessons 12-16) | **Coherence Links from:** | | **G4-M2** Unit Conversions and Problem Solving with Metric Measurement | |
| **Coherence Links to:** | | **N/A** | |
| **Topic D:** Division of Fractions  (Lessons 17-20) | **Coherence Links from:** | | **G4-M5** Fraction Equivalence, Ordering, and Operations  **G5-M2** Multi-Digit Number and Decimal Fraction Operations | |
| **Coherence Links to:** | | **N/A** | |
| **Topic E:** Applying Fraction and Decimal Multiplication to Personal Financial Literacy  (Lessons 21-24) | **Coherence Links from:** | | **G4-M6** Decimal Fractions and Financial Literacy | |
| **Coherence Links to:** | | **N/A** | |
| **Topic F:** Interpretation of Numerical Expressions  (Lessons 25) | **Coherence Links from:** | | **G4-M5** Fraction Equivalence, Ordering, and Operations  **G5-M2** Multi-Digit Number and Decimal Fraction Operations | |
| **Coherence Links to:** | | **N/A** | |
| **Module 5: Addition and Multiplication with Volume and Area** | | | | |
| **Topic A:** Concepts of Volume  (Lessons 1-3) | **Coherence Links from:** | | **G2-M8** Time, Shapes, and Fractions as Equal Parts of Shapes  **G3-M4** Multiplication and Area  **G3-M5** Fractions as Numbers on the Number Line | |
| **Coherence Links to:** | | **N/A** | |
| **Topic B:** Volume and the Operations of Multiplication and Addition  (Lessons 4-9) | **Coherence Links from:** | | **G3-M4** Multiplication and Area | |
| **Coherence Links to:** | | **N/A** | |
| **Topic C:** Area of Rectangular Figures with Fractional Side Lengths  (Lessons 10-14) | **Coherence Links from:** | | **G4-M4** Angle Measures and Plane Figures | |
| **Coherence Links to:** | | **N/A** | |
| **Topic D:** Drawing, Analysis, and Classification of Two-Dimensional Shapes  (Lessons 15-22) | **Coherence Links from:** | | **G3-M7** Geometry and Measurement Word Problems  **G4-M4** Angle Measure and Plane Figures | |
| **Coherence Links to:** | | **N/A** | |
| **Module 6: Problem Solving with the Coordinate Plane** | | | | |
| **Topic A:** Coordinate Systems  (Lessons 1-3) | **Coherence Links from:** | | **G3-M5** Fractions as Numbers on the Number Line | |
| **Coherence Links to:** | | **N/A** | |
| **Topic B:** Patterns in the Coordinate Plane and Graphing Number Patterns from Rules  (Lessons 7-13) | **Coherence Links from:** | | **G4-M4** Angle Measure and Plane Figures  **G4-M7** Exploring Measurement with Multiplication and Data | |
| **Coherence Links to:** | | **N/A** | |
| **Topic C:** Data Representations and Analysis  (Lessons 14-18) | **Coherence Links from:** | | **G4-M7** Exploring Measurement with Multiplication and Data | |
| **Coherence Links to:** | | **N/A** | |
| **Topic D:** Multi-Step Word Problem  (Lesson 19-23) | **Coherence Links from:** | | **G4-M1** Place Value, Rounding and Algorithms for Addition and Subtraction  **G4-M3** Multi-Digit Multiplication and Division  **G4-M5** Fraction Equivalence, Ordering and Operations  **G4-M6** Decimal Fractions and Financial Literacy  **M4-M7** Exploring Measurement with Multiplication | |
| **Coherence Links to:** | | **N/A** | |
| **Topic E:** The Years in Review  (Lessons 24-34) | **Coherence Links from:** | | **N/A** | |
| **Coherence Links to:** | | **N/A** | |