**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** |