**Coherence Links by Module**

**Grade 4**

| **Module 1: Place Value, Rounding and Algorithms for Addition and Subtraction** | | | | |
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| **Topic A:** Place Value of Multi-Digit Whole Numbers  (Lessons 1-4) | **Coherence Links from:** | | **G3-M2** Place Value and Problem Solving with Units of Measure | |
| **Coherence Links to:** | | **G5-M1** Place Value and Decimal Fractions | |
| **Topic B:** Comparing Multi-Digit Whole Numbers  (Lessons 5-6) | **Coherence Links from:** | | **G3-M2** Place Value and Problem Solving with Units of Measure | |
| **Coherence Links to:** | | **G5-M1** Place Value and Decimal Fractions | |
| **Topic C:** Rounding Multi-Digit Whole Numbers  (Lessons 7-10) | **Coherence Links from:** | | **G3-M2** Place Value and Problem Solving with Units of Measure | |
| **Coherence Links to:** | | **G5-M1** Place Value and Decimal Fractions | |
| **Topic D:** Multi-Digit Whole Number Addition  (Lessons 11-12) | **Coherence Links from:** | | **G3-M2** Place Value and Problem Solving with Units of Measure | |
| **Coherence Links to:** | | **G5-M1** Place Value and Decimal Fractions | |
| **Topic E:** Multi-Digit Whole Number Subtraction  (Lessons 13-16) | **Coherence Links from:** | | **G3-M2** Place Value and Problem Solving with Units of Measure | |
| **Coherence Links to:** | | **G5-M1** Place Value and Decimal Fractions | |
| **Topic F:** Addition and Subtraction Word Problems  (Lessons 17-19) | **Coherence Links from:** | | **G3-M2** Place Value and Problem Solving with Units of Measure | |
| **Coherence Links to:** | | **G5-M1** Place Value and Decimal Fractions | |
| **Module 2: Unit Conversions and Problem solving with Metric Measurement** | | | | |
| **Topic A:** Metric Unit Conversions  (Lessons 1-3) | **Coherence Links from:** | | **G2-M2** Addition and Subtraction of Length Units  **G3-M2** Place Value and Problem Solving with Units of Measure | |
| **Coherence Links to:** | | **G5-M1** Place Value and Decimal Fractions  **G5-M2** Multi-Digit Whole Numbers and Decimal Fraction Operations | |
| **Topic B:** Application of Metric Unit Conversions  (Lessons 4-5) | **Coherence Links from:** | | **G2-M2** Addition and Subtraction of Length Units  **G3-M2** Place Value and Problem Solving with Units of Measure | |
| **Coherence Links to:** | | **G5-M1** Place Value and Decimal Fractions  **G5-M2** Multi-Digit Whole Numbers and Decimal Fraction Operations | |
| **Module 3: Multi-Digit Multiplication and Division** | | | | |
| **Topic A:** Multiplicative Comparison Word Problems  (Lessons 1-3) | **Coherence Links from:** | | **G3-M4** Multiplication and Area  **G3-M7** Geometry and Measurement Word Problems | |
| **Coherence Links to:** | | **G5-M5** Addition and Multiplication with Volume and Area | |
| **Topic B:** Multiplication by 10, 100 and 1,000  (Lessons 4-6) | **Coherence Links from:** | | **G3-M1** Properties of Multiplication and Division and Problem Solving with Units of 2-5 and 10 | |
| **Coherence Links to:** | | **G5-M1** Place Value and Decimal Fraction | |
| **Topic C:** Multiplication of up to Four Digits by Single-Digit Numbers  (Lesson 7-11) | **Coherence Links from:** | | **G3-M1** Properties of Multiplication and Division and Problem Solving with Units of 2-5 and 10  **G3-M3** Multiplication and Division with Units 0, 1, 6-9 and Multiples of 10 | |
| **Coherence Links to:** | | **G5-M2** Multi-Digit Whole Numbers and Decimal Fraction Operations | |
| **Topic D:** Multiplication Word Problems  (Lessons 12-13) | **Coherence Links from:** | | **G3-M1** Properties of Multiplication and Division and Problem Solving with Units of 2-5 and 10  **G3-M3** Multiplication and Division with Units 0, 1, 6-9 and Multiples of 10 | |
| **Coherence Links to:** | | **G5-M2** Multi-Digit Whole Numbers and Decimal Fraction Operations | |
| **Topic E**: Division of Tens and Ones with Successive Remainders  (Lessons 14-21) | **Coherence Links from:** | | **G3-M1** Properties of Multiplication and Division and Problem Solving with Units of 2-5 and 10  **G3-M3** Multiplication and Division with Units 0, 1, 6-9 and Multiples of 10 | |
| **Coherence Links to:** | | **G5-M2** Multi-Digit Whole Numbers and Decimal Fraction Operations | |
| **Topic F:** Division of Thousands, Hundreds, Tens and Ones  (Lessons 22-29) | **Coherence Links from:** | | **G3-M1** Properties of Multiplication and Division and Problem Solving with Units of 2-5 and 10  **G3-M3** Multiplication and Division with Units 0, 1, 6-9 and Multiples of 10 | |
| **Coherence Links to:** | | **G5-M2** Multi-Digit Whole Numbers and Decimal Fraction Operations | |
| **Topic G**: Multiplication of Two-Digit by Two-Digit Numbers  (Lessons 30-34) | **Coherence Links from:** | | **G3-M1** Properties of Multiplication and Division and Problem Solving with Units of 2-5 and 10  **G3-M3** Multiplication and Division with Units 0, 1, 6-9 and Multiples of 10 | |
| **Coherence Links to:** | | **G5-M2** Multi-Digit Whole Numbers and Decimal Fraction Operations | |
| **Module 4: Angle Measure and Plane Figures** | | | | |
| **Topic A:** Lines and Angles  (Lessons 1-4) | **Coherence Links from:** | | **G2-M8** Time, Shapes, and Fractions as Equal Parts of Shapes  **G3-M7** Geometry and Measurement Word Problems | |
| **Coherence Links to:** | | **G5-M5** Addition and Multiplication with Volume and Area | |
| **Topic B**: Angle Measurement  (Lessons 5-8) | **Coherence Links from:** | | **G2-M8** Time, Shapes, and Fractions as Equal Parts of Shapes | |
| **Coherence Links to:** | | **N/A** | |
| **Topic C:** Problem Solving with the Addition of Angle Measures  (Lessons 9-11) | **Coherence Links from:** | | **G3-M7** Geometry and Measurement Word Problems | |
| **Coherence Links to:** | | **N/A** | |
| **Topic D:** Two-Dimensional Figures and Symmetry  (Lessons 12-16) | **Coherence Links from:** | | **G3-M7** Geometry and Measurement Word Problems | |
| **Coherence Links to:** | | **G5-M5** Addition and Multiplication with Volume and Area | |
| **Module 5: Fraction Equivalence, Ordering and Operations** | | | | |
| **Topic A:** Decomposition and Fraction Equivalence  (Lessons 1-5) | **Coherence Links from:** | | **G3-M5** Fractions as Numbers on the Number LIne | |
| **Coherence Links to:** | | **G5-M3** Addition and Subtraction of Fractions | |
| **Topic B:** Fraction Equivalence Using Multiplication and Division  (Lessons 6-10) | **Coherence Links from:** | | **G3-M5** Fractions as Numbers on the Number LIne | |
| **Coherence Links to:** | | **G5-M3** Addition and Subtraction of Fractions  **G5-M4** Multiplication and Division of Fractions and Decimal Fractions | |
| **Topic C:** Fraction Comparison  (Lessons 11-14) | **Coherence Links from:** | | **G3-M5** Fractions as Numbers on the Number LIne | |
| **Coherence Links to:** | | **G5-M3** Addition and Subtraction of Fractions | |
| **Topic D:** Fraction Addition and Subtraction  (Lessons 15-18) | **Coherence Links from:** | | **G3-M5** Fractions as Numbers on the Number LIne | |
| **Coherence Links to:** | | **G5-M3** Addition and Subtraction of Fractions | |
| **Topic E:** Extending Fraction Equivalence to Fractions Greater than 1  (Lessons 19-24) | **Coherence Links from:** | | **G3-M5** Fractions as Numbers on the Number LIne | |
| **Coherence Links to:** | | **G5-M3** Addition and Subtraction of Fractions  **G5-M4** Multiplication and Division of Fractions and Decimal Fractions | |
| **Topic F:** Addition and Subtraction of Fractions by Decomposition  (Lessons 25-31) | **Coherence Links from:** | | **G3-M5** Fractions as Numbers on the Number LIne | |
| **Coherence Links to:** | | **G5-M3** Addition and Subtraction of Fractions | |
| **Module 6: Decimal Fractions and Financial Literacy** | | | | |
| **Topic A:** Exploration of Tenths  (Lessons 1-3) | **Coherence Links from:** | | **G3-M2** Place Value and Problem Solving with Units of Measure  **G3-M5** Fractions as Numbers on the Number LIne | |
| **Coherence Links to:** | | **G5-M1** Place Value and Decimal Fraction | |
| **Topic B:** Tenths and Hundredths  (Lessons 4-8) | **Coherence Links from:** | | **G3-M2** Place Value and Problem Solving with Units of Measure  **G3-M5** Fractions as Numbers on the Number LIne | |
| **Coherence Links to:** | | **G5-M1** Place Value and Decimal Fraction | |
| **Topic C:** Decimal Comparison  (Lessons 9-11) | **Coherence Links from:** | | **G3-M5** Fractions as Numbers on the Number Line | |
| **Coherence Links to:** | | **G5-M1** Place Value and Decimal Fraction | |
| **Topic D:** Addition with Tenths and Hundredths  (Lesson 12-14) | **Coherence Links from:** | | **G3-M5** Fractions as Numbers on the Number Line | |
| **Coherence Links to:** | | **G5-M2** Multi-Digit Whole Numbers and Decimal Fraction Operations | |
| **Topic E:** Money Amount as Decimals Numbers and Financial Literacy  (Lessons 15-18) | **Coherence Links from:** | | **G3-M6** Financial Literacy and Data | |
| **Coherence Links to:** | | **G5-M4** Multiplication and Division of Fractions | |
| **Module 7: Exploring Measurement with Multiplication and Data** | | | | |
| **Topic A:** Measurement Conversion Tables  (Lessons 1-5) | **Coherence Links from:** | | **G3-M1** Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10  **G3-M2** Place Value and Problem Solving with Units of Measure | |
| **Coherence Links to:** | | **G5-M1** Place Value and Decimal Fraction  **G5-M2** Multi-Digit Whole Number and Decimal Fraction Operations | |
| **Topic B:** Problem Solving with Measurement  (Lessons 6-11) | **Coherence Links from:** | | **G3-M1** Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10  **G3-M2** Place Value and Problem Solving with Units of Measure | |
| **Coherence Links to:** | | **G5-M1** Place Value and Decimal Fraction  **G5-M2** Multi-Digit Whole Number and Decimal Fraction Operations | |
| **Topic C:** Investigation of Measurements Expressed as Mixed Numbers  (Lessons 12-14) | **Coherence Links from:** | | **G3-M1** Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10  **G3-M2** Place Value and Problem Solving with Units of Measure | |
| **Coherence Links to:** | | **G5-M1** Place Value and Decimal Fraction  **G5-M2** Multi-Digit Whole Number and Decimal Fraction Operations | |
| **Topic D:** Data Analysis  (Lessons 15-17) | **Coherence Links from:** | | **G4-M5** Fraction Equivalence, Ordering and Operations | |
| **Coherence Links to:** | | **N/A** | |
| **Topic E:** Year in Review  (Lessons 18-21) | **Coherence Links from:** | | **N/A** | |
| **Coherence Links to:** | | **N/A** | |