**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** |