**Coherence Links by Module**

**Grade 3**

| **Module 1: Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10** |
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| **Topic A:** Multiplication and the Meaning of Factors(Lessons 1-3) | **Coherence Links from:** | **G2-M6** Foundations of Multiplication, Division and Area |
| **Coherence Links to:** | **G4-M3** Multi-Digit Multiplication and Division |
| **Topic B:** Division as an Unknown Factor Problems(Lessons 4-6) | **Coherence Links from:** | **G2-M6** Foundations of Multiplication, Division and Area |
| **Coherence Links to:** | **G4-M3** Multi-Digit Multiplication and Division |
| **Topic C:** Multiplication using Units of 2 and 3 (Lessons 7-10) | **Coherence Links from:** | **G2-M6** Foundations of Multiplication, Division and Area |
| **Coherence Links to:** | **G4-M3** Multi-Digit Multiplication and Division |
| **Topic D:** Division Using Units of 2 and 3(Lessons 11-13) | **Coherence Links from:** | **G2-M6** Foundations of Multiplication, Division and Area |
| **Coherence Links to:** | **G4-M3** Multi-Digit Multiplication and Division |
| **Topic E:** Multiplication and Division Using Units of 4(Lessons 14-17) | **Coherence Links from:** | **G2-M6** Foundations of Multiplication, Division and Area |
| **Coherence Links to:** | **G4-M3** Multi-Digit Multiplication and Division |
| **Topic F:** Distributive Property and Problem Solving Using Units of 2-5 and 10(Lessons 18-21) | **Coherence Links from:** | **G2-M6** Foundations of Multiplication, Division and Area |
| **Coherence Links to:** | **G4-M3** Multi-Digit Multiplication and Division |
| **Module 2: Place Value and Problem Solving with Units of Measure** |
| **Topic A:** Time Measurement and Problem Solving(Lessons 1-3) | **Coherence Links from:** | **G2-M2** Addition and Subtraction of Length Units |
| **Coherence Links to:** | **G4-M2** Unit Conversions and Problem Solving with Metric Units |
| **Topic B:** Measuring Weight and Liquid Volume in Metric Units(Lessons 4-9) | **Coherence Links from:** | **G2-M2** Addition and Subtraction of Length Units**G2-M3** Place Value, Counting and Comparison of Numbers to 1,200**G3-M1** Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10 |
| **Coherence Links to:** | **G4-M2** Unit Conversions and Problem Solving with Metric Units |
| **Topic C:** Place Value and Comparing Multi-Digit Whole Numbers(Lessons 10-12) | **Coherence Links from:** | **G2-M3** Place Value, Counting and Comparison of Numbers to 1,200 |
| **Coherence Links to:** | **G4-M1** Place Value, Rounding and Algorithms for Addition and Subtraction |
| **Topic D:** Rounding to the Nearest Ten, Hundred, Thousand and Ten Thousand(Lessons 13-16) | **Coherence Links from:** | **G2-M2** Addition and Subtraction of Length Units |
| **Coherence Links to:** | **G4-M2** Unit Conversions and Problem Solving with Metric Units |
| **Topic E:** Two-and- Three Digit Measurement Addition Using the Standard Algorithm (Lessons 17-19) | **Coherence Links from:** | **G2-M2** Addition and Subtraction of Length Units**G2-M5** Addition and Subtraction within 1,000 with Word Problems within 1,000 |
| **Coherence Links to:** | **G4-M1** Place Value, Rounding and Algorithms for Addition and Subtraction |
| **Topic F:** Two- and- Three Digit Measurement Subtraction Using the Standard Algorithm(Lessons 20-23) | **Coherence Links from:** | **G2-M2** Addition and Subtraction of Length Units**G2-M5** Addition and Subtraction within 1,000 with Word Problems within 1,000 |
| **Coherence Links to:** | **G4-M1** Place Value, Rounding and Algorithms for Addition and Subtraction |
| **Module 3: Multiplication and Division with Units of 0, 1, 6-9 and Multiples of 10** |
| **Topic A:** Multiplication as Comparison(Lessons 1-4) | **Coherence Links from:** | **G2-M6** Foundations of Multiplication, Division and Area**G3-M1** Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10 |
| **Coherence Links to:** | **G3-M4** Multiplication and Area**G4-M3** Multi-Digit Multiplication and Area |
| **Topic B:** The properties of Multiplication and Division(Lessons 5-7) | **Coherence Links from:** | **G2-M6** Foundations of Multiplication, Division and Area**G3-M1** Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10 |
| **Coherence Links to:** | **G3-M4** Multiplication and Area**G4-M3** Multi-Digit Multiplication and Area |
| **Topic C:** Multiplication and Division Using Units of 6 and 7(Lesson 8-10) | **Coherence Links from:** | **G2-M3** Place Value, Counting and Comparison of Numbers to 1,200**G2-M6** Foundations of Multiplication, Division and Area**G3-M1** Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10 |
| **Coherence Links to:** | **G3-M4** Multiplication and Area**G4-M3** Multi-Digit Multiplication and Area**G4-M5** Fraction Equivalence and Operations**G4-M7** Exploring Measurement and Multiplication and Data |
| **Topic D:** Multiplication and Division Using Units up to 8(Lessons 11-12) | **Coherence Links from:** | **G2-M3** Place Value, Counting and Comparison of Numbers to 1,200**G2-M6** Foundations of Multiplication, Division and Area**G3-M1** Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10 |
| **Coherence Links to:** | **G3-M4** Multiplication and Area**G4-M3** Multi-Digit Multiplication and Area**G4-M5** Fraction Equivalence and Operations**G4-M7** Exploring Measurement and Multiplication and Data |
| **Topic E**: Multiplication and Division Using Units up to 9(Lessons 13-14) | **Coherence Links from:** | **G2-M3** Place Value, Counting and Comparison of Numbers to 1,200**G2-M6** Foundations of Multiplication, Division and Area**G3-M1** Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10 |
| **Coherence Links to:** | **G3-M4** Multiplication and Area**G4-M3** Multi-Digit Multiplication and Area**G4-M5** Fraction Equivalence and Operations**G4-M7** Exploring Measurement and Multiplication and Data |
| **Topic F:** Analysis of Patterns and Problem Solving Including Units of 0 and 1(Lessons 15-17) | **Coherence Links from:** | **G2-M6** Foundations of Multiplication, Division and Area**G3-M1** Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10 |
| **Coherence Links to:** | **G3-M4** Multiplication and Area**G4-M3** Multi-Digit Multiplication and Area**G4-M7** Exploring Measurement and Multiplication and Data |
| **Topic G**: Multiplication of Single- Digit Factors and Two- Digit Factors(Lessons 18-23) | **Coherence Links from:** | **G2-M3** Place Value, Counting and Comparison of Numbers to 1,200**G2-M6** Foundations of Multiplication, Division and Area**G3-M1** Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10 |
| **Coherence Links to:** | **G3-M4** Multiplication and Area**G4-M3** Multi-Digit Multiplication and Area**G4-M7** Exploring Measurement and Multiplication and Data |
| **Module 4: Multiplication and Area** |
| **Topic A:** Concepts of Area Measurement(Lessons 1-5) | **Coherence Links from:** | **G2-M2** Addition and Subtraction of Length Units**G3-M1** Properties of Multiplication and Division and Solving Problems with Units 2-5 and 10**G3-M3** Multiplication and Division of 0, 1, 6-9 and Multiples of 10 |
| **Coherence Links to:** | **G4-M3** Multi-Digit Multiplication and Area**G4-M7** Exploring Measurement and Multiplication and Data |
| **Topic B**: Arithmetic Properties Using Area Models(Lessons 6-8) | **Coherence Links from:** | **G2-M2** Addition and Subtraction of Length Units**G3-M1** Properties of Multiplication and Division and Solving Problems with Units 2-5 and 10**G3-M3** Multiplication and Division of 0, 1, 6-9 and Multiples of 10 |
| **Coherence Links to:** | **G4-M3** Multi-Digit Multiplication and Area**G4-M7** Exploring Measurement and Multiplication and Data |
| **Topic C:** Applications fo Area Using Side Lengths of Figures(Lessons 9-13) | **Coherence Links from:** | **G2-M2** Addition and Subtraction of Length Units**G3-M1** Properties of Multiplication and Division and Solving Problems with Units 2-5 and 10**G3-M3** Multiplication and Division of 0, 1, 6-9 and Multiples of 10 |
| **Coherence Links to:** | **G4-M3** Multi-Digit Multiplication and Area**G4-M7** Exploring Measurement and Multiplication and Data |
| **Module 5: Fractions as Numbers on the Number Line** |
| **Topic A:** Partitioning a Whole in Equal Parts(Lessons 1-5) | **Coherence Links from:** | **G2-M8** Time, Shapes and Fractions as Equal Parts of Shapes |
| **Coherence Links to:** | **G4-M5** Fraction Equivalence, Ordering and Operations |
| **Topic B:** Unit Fractions and Their Relation to the Whole(Lessons 6-10)  | **Coherence Links from:** | **G2-M8** Time, Shapes and Fractions as Equal Parts of Shapes |
| **Coherence Links to:** | **G4-M5** Fraction Equivalence, Ordering and Operations |
| **Topic C:** Comparing Unit Fractions and Specifying the Whole(Lessons 11-14) | **Coherence Links from:** | **G2-M8** Time, Shapes and Fractions as Equal Parts of Shapes |
| **Coherence Links to:** | **G4-M5** Fraction Equivalence, Ordering and Operations |
| **Topic D:** Fractions on the Number Line(Lessons 15-20) | **Coherence Links from:** | **G2-M8** Time, Shapes and Fractions as Equal Parts of Shapes |
| **Coherence Links to:** | **G4-M5** Fraction Equivalence, Ordering and Operations |
| **Topic E:** Equivalent Fractions (Lessons 21-28) | **Coherence Links from:** | **G2-M8** Time, Shapes and Fractions as Equal Parts of Shapes |
| **Coherence Links to:** | **G4-M5** Fraction Equivalence, Ordering and Operations |
| **Topic F:** Comparison, Order and Size of Fractions (Lessons 29-31) | **Coherence Links from:** | **G2-M8** Time, Shapes and Fractions as Equal Parts of Shapes |
| **Coherence Links to:** | **G4-M5** Fraction Equivalence, Ordering and Operations |
| **Module 6: Financial Literacy and Data** |
| **Topic A:** Financial Literacy(Lessons 1-4) | **Coherence Links from:** | **G2-M7** Problem Solving with Length, Money and Data |
| **Coherence Links to:** | **G4-M6** Decimal Fractions and Financial Literacy |
| **Topic B:** Generate and Analyze Categorical Data(Lessons 5-8) | **Coherence Links from:** | **G2-M7** Problem Solving with Length, Money and Data**G3-M1** Properties of Multiplication and Division and Solving Problems with Units 2-5 and 10 |
| **Coherence Links to:** | **G4-M2** Unit Conversions and Problem Solving with Metric Measurements**G4-M7** Exploring Measurement with Multiplication and Data |
| **Topic C:** Generate and Analyze Measurement Data(Lessons 9-15) | **Coherence Links from:** | **G2-M7** Problem Solving with Length, Money and Data**G3-M5** Fractions as Numbers on the Number Line |
| **Coherence Links to:** | **G4-M2** Unit Conversions and Problem Solving with Metric Measurements |
| **Module 7: Geometry and Measurement Word Problems** |
| **Topic A:** Solving Word Problems(Lessons 1-3) | **Coherence Links from:** | **G3-M1** Properties of Multiplication and Division and Solving Problems with Units 2-5 and 10**G3-M3** Multiplication and Division of 0, 1, 6-9 and Multiples of 10 |
| **Coherence Links to:** | **G4-M1** Place Value, Rounding and Algorithms for Addition and Subtraction**G4-M3** Multi-Digit Multiplication and Division |
| **Topic B:** Attributes of Two-and Three- Dimensional Figures(Lessons 4-8) | **Coherence Links from:** | **G2-M8** Time, Shapes and Fractions as Equal Parts of Shapes |
| **Coherence Links to:** | **G4-M4** Angle Measure and Plane Figures |
| **Topic C:** Problem Solving with Perimeter(Lessons 9-16) | **Coherence Links from:** | **G2-M6** Foundations of Multiplication, Division and Area **G3-M3** Multiplication and Division of 0, 1, 6-9 and Multiples of 10**G3-M4** Multiplication and Area |
| **Coherence Links to:** | **G4-M3** Multi-Digit Multiplication and Division |
| **Topic D:** Recording Perimeter and Area Data on Dot Plots(Lessons 17-21)  | **Coherence Links from:** | **G2-M6** Foundations of Multiplication, Division and Area **G3-M6** Financial Literacy and Data |
| **Coherence Links to:** | **G4-M3** Multi-Digit Multiplication and Division |
| **Topic E:** Problem Solving with Perimeter and Area(Lessons 22-24) | **Coherence Links from:** | **G2-M6** Foundations of Multiplication, Division and Area **G3-M6** Financial Literacy and Data**G3-M4** Multiplication and Area |
| **Coherence Links to:** | **G4-M3** Multi-Digit Multiplication and Division |
| **Topic F:** Year in Review(Lessons 25-28) | **Coherence Links from:** | **G2-M8** Time, Shapes and Fractions as Equal Parts of Shapes**G3-M3** Multiplication and Division of 0, 1, 6-9 and Multiples of 10 |
| **Coherence Links to:** | **G4-M3** Multi-Digit Multiplication and Division**G4-M5** Fraction Equivalence, Ordering and Operations**G4-M7** Exploring Measurement with Multiplication and Data |