**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 | |