**Coherence Links by Module**

**Grade 2**

| **Module 1: Sums and Differences to 100** |
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| **Topic A:** Foundations for Fluency with Sums and Differences within 100(Lessons 1-2) | **Coherence Links from:** | **G1-M2** Introduction to Place Value Through Addition and Subtraction within 20**G1-M4** Place Value, Comparison, Addition and Subtraction to 40 **G1-M6** Place Value, Comparison, Understanding Income with Addition and Subtraction to 100 |
| **Coherence Links to:** | **G2-M4** Addition and Subtraction within 200 with Word Problems to 100**G3-M2** Place Value and Problem Solving with Units of Measure |
| **Topic B:** Initiating Fluency with Addition and Subtraction within 100(Lessons 3-8) | **Coherence Links from:** | **G1-M2** Introduction to Place Value Through Addition and Subtraction within 20**G1-M4** Place Value, Comparison, Addition and Subtraction to 40 **G1-M6** Place Value, Comparison, Understanding Income with Addition and Subtraction to 100 |
| **Coherence Links to:** | **G2-M4** Addition and Subtraction within 200 with Word Problems to 100**G3-M2** Place Value and Problem Solving with Units of Measure |
| **Module 2: Addition and Subtraction Length Units** |
| **Topic A:** Understand Concepts About the Ruler(Lessons 1-31) | **Coherence Links from:** | **G1-M3** Ordering and Comparing Length Measurements as Numbers |
| **Coherence Links to:** | **G3-M4**  Multiplication and Area |
| **Topic B:** Measure and Estimate Length Using DIfferent Measurement Tools(Lessons 4-5) | **Coherence Links from:** | **G1-M3** Ordering and Comparing Length Measurements as Numbers |
| **Coherence Links to:** | **G2- M7** Problem Solving with Length, Money and Data**G3-M2** Place Value and Problem Solving with Units of Measure |
| **Topic C:** Measure and Compare Lengths Using Different Unit Lengths(Lessons 6-7) | **Coherence Links from:** | **GK- M3** Comparison of Length, Weight, Capacity, and Numbers to 10**G1- M6** Place Value, Comparison, Understanding Income with Addition and Subtraction to 100 |
| **Coherence Links to:** | **G3-M2** Place Value and Problem Solving with Units of Measure**G3-M4** Multiplication and Area**G3-M7** Geometry and Measurement Word Problems  |
| **Topic D:** Relate Addition and Subtraction to Length(Lessons 8-10) | **Coherence Links from:** | **GK- M3** Comparison of Length, Weight, Capacity, and Numbers to 10**G1-M3** Ordering and Comparing Length Measurements as Numbers**G1-M6** Place Value, Comparison, Understanding Income with Addition and Subtraction to 100**G2-M7** Problem Solving with Length, Money and Data |
| **Coherence Links to:** | **G3-M2** Place Value and Problem Solving with Units of Measure**G3-M4** Multiplication and Area**G3-M7** Geometry and Measurement Word Problems |
| **Module 3: Place Value, Counting and Comparison of Numbers to 1,200** |
| **Topic A:** Forming Base Ten Units of Ten, a Hundred, and a Thousand(Lesson 1) | **Coherence Links from:** | **G1-M6** Place Value, Comparison, Understanding Income with Addition and Subtraction |
| **Coherence Links to:** | **G2-M4** Addition and Subtraction within 200 with Word Problems to 100 |
| **Topic B:** Understanding Place Value Units of One, Ten and Hundred(Lessons 2-3) | **Coherence Links from:** | **G1-M6** Place Value, Comparison, Understanding Income with Addition and Subtraction |
| **Coherence Links to:** | **G2-M4** Addition and Subtraction within 200 with Word Problems to 100 |
| **Topic C:** Numbers to 1,200 in Unit, Standard, Expanded and Word Forms(Lesson 4-6) | **Coherence Links from:** | **G1-M6** Place Value, Comparison, Understanding Income with Addition and Subtraction |
| **Coherence Links to:** | **G2-M4** Addition and Subtraction within 200 with Word Problems to 100**G2-M7** Problem Solving with Length, Money and Data |
| **Topic D:** Modeling Base Ten Numbers Within 1,200 with Place Value Disks(Lessons 7-9) | **Coherence Links from:** | **G1-M6** Place Value, Comparison, Understanding Income with Addition and Subtraction |
| **Coherence Links to:** | **G2-M4** Addition and Subtraction within 200 with Word Problems to 100**G2-M7** Problem Solving with Length, Money and Data |
| **Topic E**: Modeling Numbers up to 1,200 with Place Value Disks(Lessons 10-14) | **Coherence Links from:** | **G1-M6** Place Value, Comparison, Understanding Income with Addition and Subtraction |
| **Coherence Links to:** | **G2-M4** Addition and Subtraction within 200 with Word Problems to 100**G2-M7** Problem Solving with Length, Money and Data |
| **Topic F:** Comparing Numbers to 1,200(Lessons 15-17) | **Coherence Links from:** | **G1-M6** Place Value, Comparison, Understanding Income with Addition and Subtraction |
| **Coherence Links to:** | **G2-M4** Addition and Subtraction within 200 with Word Problems to 100 |
| **Topic G**: Finding 1, 10 and 100 More or Less than a Number (Lessons 18-20) | **Coherence Links from:** | **G1-M6** Place Value, Comparison, Understanding Income with Addition and Subtraction |
| **Coherence Links to:** | **G2-M4** Addition and Subtraction within 200 with Word Problems to 100 |
| **Module 4: Addition and Subtraction within 200 with Word Problems to 100** |
| **Topic A:** Sums and Differences within 100(Lessons 1-5) | **Coherence Links from:** | **G2-M3** Place Value, Counting and Comparison Numbers to 1,200  |
| **Coherence Links to:** | **G2-M5** Addition and Subtraction within 1,000 with Word Problems within 1,000**G3-M2** Place Value and Problem Solving with Units of Measure |
| **Topic B**: Strategies for Composting a Ten(Lessons 6-10) | **Coherence Links from:** | **G1-M4** Place Value, Comparison, Addition and Subtraction to 40 |
| **Coherence Links to:** | **G2-M5** Addition and Subtraction within 1,000 with Word Problems within 1,000**G3-M2** Place Value and Problem Solving with Units of Measure |
| **Topic C:** Strategies for Decomposing a Ten(Lessons 11-16) | **Coherence Links from:** | **G1-M4** Place Value, Comparison, Addition and Subtraction to 40 |
| **Coherence Links to:** | **G2-M5** Addition and Subtraction within 1,000 with Word Problems within 1,000**G3-M2** Place Value and Problem Solving with Units of Measure |
| **Topic D**: Strategies for Composing Tens and Hundreds (Lessons 17-22) | **Coherence Links from:** | **G1-M4** Place Value, Comparison, Addition and Subtraction to 40 |
| **Coherence Links to:** | **G2-M5** Addition and Subtraction within 1,000 with Word Problems within 1,000**G3-M2** Place Value and Problem Solving with Units of Measure |
| **Topic E:** Strategies for Decomposing Tens and Hundreds(Lessons 23-28) | **Coherence Links from:** | **G1-M4** Place Value, Comparison, Addition and Subtraction to 40 |
| **Coherence Links to:** | **G3-M2** Place Value and Problem Solving with Units of Measure**G4-M1** Place Value, Rounding and Algorithms for Addition and Subtraction |
| **Topic F:** Student Explanations of Written Methods(Lessons 29-31) | **Coherence Links from:** | **G1-M2** Introduction to Place Value Through Addition and Subtraction within 20 |
| **Coherence Links to:** | **G3-M2** Place Value and Problem Solving with Units of Measure**G4-M1** Place Value, Rounding and Algorithms for Addition and Subtraction |
| **Module 5: Addition and Subtraction within 1,000 with Word Problems within 1,000** |
| **Topic A:** Strategies for Adding and Subtracting Within 1,000(Lessons 1-7) | **Coherence Links from:** | **G1-M6** Place Value, Comparison, Understanding Income with Addition and Subtraction |
| **Coherence Links to:** | **G3-M2** Place Value and Problem Solving with Units of Measure |
| **Topic B:** Strategies for Composing Tens and Hundreds within 1,000(Lessons 8-12)  | **Coherence Links from:** | **G1-M6** Place Value, Comparison, Understanding Income with Addition and Subtraction |
| **Coherence Links to:** | **G3-M2** Place Value and Problem Solving with Units of Measure |
| **Topic C:** Strategies for Decomposing Tens and Hundreds within 1,000(Lessons 13-18) | **Coherence Links from:** | **G2-M4** Addition and Subtraction within 200 with Word Problems to 100 |
| **Coherence Links to:** | **G3-M2** Place Value and Problem Solving with Units of Measure**G4-M1** Place Value, Rounding and Algorithms for Addition and Subtraction |
| **Topic D:** Student Explanations for Choice of Solution Methods(Lessons 19-20) | **Coherence Links from:** | **G1-M2** Introduction to Place Value Through Addition and Subtraction within 20 |
| **Coherence Links to:** | **G3-M2** Place Value and Problem Solving with Units of Measure |
| **Module 6: Place Value, Comparison, Understanding Income with Addition and Subtraction to 100** |
| **Topic A:** Formation of Equal Groups (Lessons 1-4) | **Coherence Links from:** | **G2-M3** Place Value, Counting, Comparison of Numbers to 1,200 |
| **Coherence Links to:** | **G3-M1** Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10 |
| **Topic B:** Arrays and Equal Groups (Lessons 5-9) | **Coherence Links from:** | **G2-M3** Place Value, Counting, Comparison of Numbers to 1,200 |
| **Coherence Links to:** | **G2-M8** Time, Shapes and Fractions as Equal Parts of Shapes**G3-M1** Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10 |
| **Topic C:** Rectangular Arrays as Foundations for Multiplication and Division(Lessons 10-16) | **Coherence Links from:** | **G1-M2** Introduction to Place Value Through Addition and Subtraction within 20 |
| **Coherence Links to:** | **G2-M8** Time, Shapes and Fractions as Equal Parts of Shapes**G3-M4** Multiplication and Area |
| **Topic D:** The Meaning of Even and Odd Numbers(Lessons 17-20)  | **Coherence Links from:** | **G2-M5** Addition and Subtraction within 1,000 with Word Problems within 1,000 |
| **Coherence Links to:** | **G3-M4** Multiplication and Area |
| **Module 7: Problem Solving with Length, Money and Data** |
| **Topic A:** Problem Solving with Categorical Data(Lessons 1-5) | **Coherence Links from:** | **G1-M3** Ordering and Comparing Length Measurements as Numbers |
| **Coherence Links to:** | **G3-M6** Financial Literacy and Data |
| **Topic B:** Problem Solving with Coins and Bills(Lessons 6-13) | **Coherence Links from:** | **G1-M6** Place Value, Comparison, Understanding Income with Addition and Subtraction to 100 |
| **Coherence Links to:** | **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 |
| **Topic C:** Problem Solving with Financial Literacy (Lessons 14-16) | **Coherence Links from:** | **G1-M6** Place Value, Comparison, Understanding Income with Addition and Subtraction to 100 |
| **Coherence Links to:** | **G3-M6** Financial Literacy and Data |
| **Topic D:** Creating an Inch Ruler(Lessons 17-18)  | **Coherence Links from:** | **G1-M3** Ordering and Comparing Length Measurements as Numbers |
| **Coherence Links to:** | **G3-M7** Geometry and Measurement Word Problems |
| **Topic E:** Measuring and Estimating Length Using Customary and Metric Units(Lessons 19-22) | **Coherence Links from:** | **G1-M3** Ordering and Comparing Length Measurements as Numbers**G2-M2** Addition and Subtraction of Length Units |
| **Coherence Links to:** | **G3-M2** Place Value and Problem Solving with Units of Measure |
| **Topic F:** Problem Solving with Customary and Metric Units (Lessons 23-25) | **Coherence Links from:** | **G2-M2** Addition and Subtraction of Length Units**G2-M3** Place Value, Counting, Comparison of Numbers to 1,200 |
| **Coherence Links to:** | **G3-M2** Place Value and Problem Solving with Units of Measure |
| **Module 8: Time, Shapes and Fractions as Equal Parts of Shapes** |
| **Topic A:** Attributes of Geometric Shapes(Lessons 1-5) | **Coherence Links from:** | **G1-M5** Identifying, Composing and Partitioning Shapes |
| **Coherence Links to:** | **G3-M7** Geometry and Measurement Word Problems |
| **Topic B:** Composite Shapes and Fraction Concepts(Lessons 6-8) | **Coherence Links from:** | **G1-M5** Identifying, Composing and Partitioning Shapes |
| **Coherence Links to:** | **G3-M7** Geometry and Measurement Word Problems |
| **Topic C:** Fractions of Circles and Rectangles(Lessons 9-11) | **Coherence Links from:** | **G1-M5** Identifying, Composing and Partitioning Shapes |
| **Coherence Links to:** | **G3-M5** Fractions as Numbers on the Number Line |
| **Topic D:** Application of Fractions to Tell Time(Lessons 12-16)  | **Coherence Links from:** | **G1-M5** Identifying, Composing and Partitioning Shapes |
| **Coherence Links to:** | **G3-M2** Place Value and Problem Solving with Units of Measure |