**3rd Grade Math Curriculum Map**

**Unit 1 – Properties of Multiplication and Division**

|  |  |  |  |
| --- | --- | --- | --- |
| **1-1** | **Multiplication as “Equal Groups of”**  |  |  |
| **1-2** | **Multiplication Using Array Model**  |  |  |
| **1-3** | **The Meaning of Factors** |  |  |
| **1-4** | **Division as an Unknown Factor: The Size of the Group** |  |  |
| **1-5** | **Division as an Unknown Factor: The Number of Groups**  |  |  |
| **1-6** | **Multiplication Using Units of 2 and 3****1-6a The Commutativity of Multiplication****1-6b Adding and Subtracting Equal Groups in Array Models****1-6c Model the Distributive Property with Arrays** |   |  |
| **1-7** | **Division Using Unit of 2 and 3****1-7a Model Division as an Unknown Factor** **1-7b Quotient as the Number of Groups or the Number of Objects in Each Group Using Units of 2****1-7b Quotient as the Number of Groups or the Number of Objects in Each Group Using Units of 3** |  |  |
| **1-8** | **Multiplication and Division Using Units of 4****1-8a Skip Counting to Multiply Units of 4****1-8b Model Commutative Property of Multiplication with Arrays and Tape Diagrams****1-8c The Relationship Between Multiplication and Division** |  |  |
| **1-9** | **Decomposing Units Using the Distributive Property** |  |  |
| **1-10** | **Problem Solving Using Units of 2-5, and 10** |  |  |

**Unit 2 – Place Value, Measures of Time, Weight and Liquid Volume**

|  |  |  |  |
| --- | --- | --- | --- |
| **2-1** | **Skip Counting By Five to Tell Time** |  |  |
| **2-2** | **Tell Time to the Nearest Minute On the Clock** |  |  |
| **2-3** | **Solve Problems Involving Time Intervals By Counting Backward and Forward** |  |  |
|  | **Solve Problems Involving Time intervals By Adding and Subtracting on a Number Line** |  |  |
| **2-5** | **Measuring Weight in Metric Units** |  |  |
| **2-6** | **Measuring Liquid Volume in Metric Units** |  |  |
| **2-7** | **Solve Problems Involving Weight, and Liquid Volume in Metric Units** |  |  |
| **2-8** | **Round Two- and Three-Digit Numbers to the Nearest Ten** |  |  |
| **2-9** | **Round Numbers to the Nearest Hundred** |  |  |
| **2-10** | **Add Two- and Three-Digit Measurement Using the Standard Algorithm****2-10a Add Measurements to Compose Larger Units Once****2-10b Add Measurements to Compose Larger Units Twice****2-10c Estimating Sums by Rounding** |  |  |
| **2-11** | **Subtract Two- and Three-Digit Measurement Using the Standard Algorithm****2-10a Decompose Once to Subtract Measurements** **2-10b Decompose Twice to Subtract Measurements****2-10c Estimating Differences by Rounding** |  |  |

**Unit 3 – Multiplication and Division of with Units 0, 1, 6-9, and Multiples of 10.**

|  |  |  |  |
| --- | --- | --- | --- |
| **3-1** | **Find Known Facts of 6, 7, 8, and 9 by Commutativity** |  |  |
| **3-2** | **Relating Multiplication Facts Using the Commutative and Distributive Property** |  |  |
| **3-3** | **Multiply and Divide Using a Letter to Represent the Unknown**  |  |  |
| **3-4** | **Multiplication and Division Using Units of 6 and 7****3-4a Multiply by Counting Units of 6 and Divide Using Number Bonds****3-4b Multiply by Counting Units of 7 and Divide Using Number Bonds****3-4c Multiply and Divide Units of 6 and 7 Using the Distributive Property****3-4d Solve Problems Using Units of 6 and 7** |  |  |
| **3-5** | **Multiplication and Division Using Units of 8****3-5a The Role of Parentheses****3-5b Multiply Using the Associative Property****3-5c Multiply and Divide Using the Distributive Property****3-5d Solve Problems Using Units Up to 8** |  |  |
| **3-6** | **Multiplication and Division of Units of 9****3-6a Multiply Using Arithmetic Patterns****3-6b Solve Problems Using Units of 9** |  |  |
| **3-7** | **The Arithmetic Patterns in Multiplication and Division** |  |  |
| **3-8** | **The Multiplication Table** |  |  |
| **3-9** | **Solve Two-Step Word Problems Involving the Four Operations** |  |  |
| **3-10** | **Multiply by Multiples of 10** |  |  |
| **3-11** | **Solve Two-Step Word Problems in Multiplying Single-Digit Numbers by Multiples of 10** |  |  |

**Unit 4 – Multiplication and Area**

|  |  |  |  |
| --- | --- | --- | --- |
| **4-1** | **Compare Areas by Decomposing and Recomposing Shapes** |  |  |
| **4-2** | **Measure Area by Tiling with Unit Squares** |  |  |
| **4-3** | **The Relationship of Side Lengths with the Number of Tiles on a Side** |  |  |
| **4-4** | **Tiling with Unit Squares to Form a Rectangle** |  |  |
| **4-5** | **The Area of a Rectangle Given an Incomplete Array** |  |  |
| **4-6** | **Finding the Area of a Rectangle Using Multiplication** |  |  |
| **4-7** | **Finding the Total Area of a Larger Rectangle** |  |  |
| **4-8** | **Finding the Possible Whole Number Side Lengths of a Rectangle** |  |  |
| **4-9** | **Solve Problems Involving Area** |  |  |
| **4-10** | **Finding Areas by Decomposing or Completing Composite Figures** |  |  |

**Unit 5 – Unit Fractions and One Whole**

|  |  |  |  |
| --- | --- | --- | --- |
| **5-1** | **Naming and Counting Unit Fractions Using Concrete Models**  |  |  |
| **5-2** | **Naming and Counting Unit Fractions Using Area Models** |  |  |
| **5-3** | **Identify Fractional Parts of a Whole** |  |  |
| **5-4** | **Identify Unit Fractions Numerically** |  |  |
| **5-5** | **Non-Unit Fractions Less than One Whole**  |  |  |
| **5-6** | **Shaded and Non-Shaded Parts of One Whole as Fractions** |  |  |
| **5-7** | **Fractions Greater than One Whole** |  |  |
| **5-8** | **Comparing Unit Fractions** |  |  |
| **5-9** | **Place Fractions on a Number Line** |  |  |
| **5-10** | **Compare Fractions and Whole Numbers on a Number Line** |  |  |
| **5-11** | **Equivalent Fractions** |  |  |
| **5-12** | **Comparing Fractions with the Same Numerator Visually** |  |  |
| **5-13** | **Comparing Fractions with the Same Numerator Using <, >, and =** |  |  |
|  |  |  |  |

**Unit 6 – Categorical and Measurement Data**

|  |  |  |  |
| --- | --- | --- | --- |
| **6-1** | **Creating and Organizing Categorical Data** |  |  |
| **6-2** | **Draw Tape Diagrams to Represent Data** |  |  |
| **6-3** | **Creating Bar Graphs** |  |  |
| **6-4** | **Solve Problems Involving Graphs** |  |  |
| **6-5** | **Creating a Ruler with 1 Inch,** $\frac{1}{2} $**Inch and** $\frac{1}{4} $**Inch Intervals** |  |  |
| **6-6** | **Represent Measurement Data Using Line Plots** |  |  |
| **6-7** | **Data Analysis to Solve Problems** |  |  |

**Unit 7 – Two-Dimensional Figures, Perimeter, and Area**

|  |  |  |  |
| --- | --- | --- | --- |
| **7-1** | **Classify and Compare Quadrilaterals** |  |  |
| **7-2** | **Classify and Compare Polygons** |  |  |
| **7-3** | **Understand Perimeter by Decomposing Quadrilaterals** |  |  |
| **7-4** | **Measure Side Lengths to Determine the Perimeter of Polygons** |  |  |
|  **7-5** | **Determine the Perimeter of Regular Polygons and Rectangles** |  |  |
| **7-6** | **Find the Perimeter of Rectangles Given the Number of Unit Squares** |  |  |
| **7-7** | **Find the Area of Rectangles Given the Perimeter**  |  |  |
| **7-8** | **Solve Word Problems Involving Perimeter and Area** |  |  |