4th Grade Mathematics Curriculum Map 2023

| Pacing Guide | Standard Code \& Indicator | Sample Learning Activities | Sample Assessments | Additional Standards |
| :---: | :---: | :---: | :---: | :---: |
| AugustSeptember | 4.OA. 3 Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. <br> 4.OA. 5 Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. <br> 4.NBT. 1 Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right. <br> 4.NBT. 2 Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of | -Review basic facts <br> -Read and write whole numbers to millions <br> -Compare and order numbers <br> -Round to nearest thousand, ten thousand and hundred thousand. <br> - Understand negative numbers <br> - Estimate sums, differences, products, and quotients <br> - Add, subtract, multiply, and divide whole numbers <br> Instructional Resources <br> Big Ideas Textbook <br> Teacher Technology: <br> Promethean Board/Activ Panel <br> YouTube Videos <br> ActiView <br> Brain Pop <br> My Math <br> Student Technology: <br> Kahoot <br> Study Island <br> Google Classroom | Formative Assessments: <br> Chapter PreTest <br> Quizzes <br> Math Facts <br> Mini White boards <br> Homework/Classwork <br> Summative Assessment: <br> Chapter Test <br> Benchmark Assessment: <br> LinkIt BOY Benchmark 4th Grade BOY Benchmark <br> Accommodations and Modifications | Interdisciplinary Standard: <br> Phys Ed 2.2.5.PF.1: Athletic <br> Contributions and Comparisons <br> Technology Standard: <br> 8.2.5.ED.2: Collaborate with peers to collect information and brainstorm to solve a problem. |

## 4th Grade Mathematics Curriculum Map 2023

|  | the digits in each place, using >, $=$, and $<$ symbols to record the results of comparisons. <br> 4.NBT. 3 Use place value understanding to round multi-digit whole numbers to any place. <br> 4.NBT. 4 Fluently add and subtract multi-digit whole numbers using the standard algorithm. | Chromebook/ IPad IXL <br> Fun4thebrain <br> Xtra Math <br> Place Value Plug In <br> Race to the Moon |  |  |
| :---: | :---: | :---: | :---: | :---: |
| October-Novem ber | 4.OA. 1 Interpret a multiplication equation as a comparison, e.g., interpret $35=5 \times 7$ as a statement that 35 is 5 times as many as 7 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations. <br> 4.OA.2 Multiply or divide to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison <br> 4.OA.4 Find all factor pairs for a whole number in the range $1-100$. Recognize that a whole | -Estimate sums, differences, products, and quotients <br> -Add, subtract, multiply, and divide whole numbers <br> -Determine answers to open ended, non-routine, and multiple solution problems <br> -Understand and use strategies for problem solving <br> -Determine reasonable solutions <br> -Understand and use the language of math <br> Instructional Resources <br> Big Ideas Textbook <br> Teacher Technology: | Formative Assessments: <br> Chapter PreTest <br> Quizzes <br> Turn and Talk <br> Mini White boards <br> Homework/Classwork <br> Summative Assessment: <br> Chapter Test <br> Accommodations and Modifications | Interdisciplinary Standard: RI.4.3 Word Problem Match Up use information from the text to match up word problems <br> Technology Standard: 8.2.5.ED.2: Collaborate with peers to collect information and brainstorm to solve a problem. |

4th Grade Mathematics Curriculum Map 2023


4th Grade Mathematics Curriculum Map 2023

|  | the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| December-Janu ary | 4.OA. 3 Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. <br> 4.OA. 4 Find all factor pairs for a whole number in the range 1-100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range $1-100$ is a multiple of a given one-digit number. Determine whether a given whole number in the range $1-100$ is prime or composite. <br> 4.OA. 5 Generate a number or shape pattern that follows a given | -Estimate sums, differences, products, and quotients <br> -Add, subtract, multiply, and divide whole numbers <br> -Identify number patterns <br> -Understand and use input/output machines <br> -Identify properties of numbers <br> Instructional Resources <br> Big Ideas Textbook <br> Student Technology: <br> Kahoot <br> Study Island <br> Google Classroom <br> Chromebook/ IPad <br> IXL <br> Fun4thebrain <br> Xtra Math <br> Division Dots | Formative Assessments: <br> Chapter PreTest <br> Quizzes <br> Scoot <br> Think pair share <br> Homework/Classwork <br> Input/Output Quiz <br> Summative Assessment: <br> Chapter Test <br> Accommodations and <br> Modifications | Interdisciplinary Standard: <br> RI.4.7 Create input and output charts based on text <br> Technology Standard: 8.2.5.ED.2: Collaborate with peers to collect information and brainstorm to solve a problem. |

4th Grade Mathematics Curriculum Map 2023


4th Grade Mathematics Curriculum Map 2023

| FebruaryMarch | 4.OA. 4 Find all factor pairs for a whole number in the range $1-100$. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range $1-100$ is a multiple of a given one-digit number. Determine whether a given whole number in the range $1-100$ is prime or composite. <br> 4.NF. 1 Explain why a fraction $a / b$ is equivalent to a fraction ( $n$ $\times a) /(n \times b)$ by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions. <br> 4.NF. 2 Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as $1 / 2$. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols $>,=$, or $<$, and justify the conclusions, e.g., by using a visual fraction | -Add and subtract fractions <br> - Compare fractions with like numerators/denominators <br> - Compare fractions with unlike numerators/denominators <br> -Determine equivalent fractions <br> -Identify mixed numbers <br> -Add and subtract mixed numbers <br> -Identify improper fractions <br> -Decompose a fraction into a sum of fractions <br> -Identify the steps and apply to multiply fractions by a whole number <br> -Apply skills in word problems <br> Instructional Resources <br> Big Ideas Textbook <br> Student Technology: <br> Kahoot <br> Study Island <br> Google Classroom <br> Chromebook/ IPad <br> IXL <br> Fun4thebrain | Formative Assessments: <br> Chapter PreTest <br> Fractions Quiz <br> Word Problem Sort <br> Homework/Classwork <br> Summative Assessment: <br> Chapter Test <br> Accommodations and <br> Modifications | Interdisciplinary Standard: <br> W 4.2 Response to essential questions explaining the why and how. <br> Technology Standard: 8.2.5.ED.2: Collaborate with peers to collect information and brainstorm to solve a problem. |
| :---: | :---: | :---: | :---: | :---: |

4th Grade Mathematics Curriculum Map 2023


4th Grade Mathematics Curriculum Map 2023

|  | 4.NF.4.A Apply and extend <br> previous understandings of <br> multiplication to multiply a <br> fraction by a whole number. <br> Understand a fraction $a / b$ as a <br> multiple of $1 / b$. <br>  <br> 4.NF.4.B Apply and extend <br> previous understandings of <br> multiplication to multiply a <br> fraction by a whole number. <br> Understand a multiple of a/b as a <br> multiple of 1/b, and use this <br> understanding to multiply a <br> fraction by a whole number. <br> 4.NF.4.C Apply and extend |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

4th Grade Mathematics Curriculum Map 2023

| April | 4.NF. 5 Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and $100 .{ }^{2}$ <br> 4.NF. 6 Use decimal notation for fractions with denominators 10 or 100. <br> 4.NF. 7 Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols >, $=$, or $<$, and justify the conclusions, e.g., by using a visual model. | -Find fraction/decimal equivalents <br> -Order fractions and decimals <br> -Add and subtract decimals <br> -Round decimals and fractions <br> -Compare two decimals to hundredths <br> -Use visual models when comparing decimals <br> Instructional Resources: <br> Big Ideas Textbook <br> Student Technology: <br> Kahoot <br> Study Island <br> Google Classroom <br> Chromebook/ IPad <br> IXL <br> Fun4thebrain <br> Xtra Math <br> Three in a Row <br> Three in a Row-Multiplication <br> Decimal Boss <br> Teacher Technology: <br> Promethean Board/Activ Panel <br> YouTube Videos | Formative Assessments: <br> Chapter PreTest <br> Decimal Quiz <br> Comparing Decimal Sort Homework/Classwork <br> Summative Assessment: Chapter Test <br> Accommodations and Modifications | Interdisciplinary Standard: Visual Arts 1.5.5.Cr2a: <br> Students will identify fractions with different pieces of art. <br> Students will then compare and contrast their data with a partner's using similar art styles. <br> Technology Standard: 8.2.5.ED.2: Collaborate with peers to collect information and brainstorm to solve a problem. |
| :---: | :---: | :---: | :---: | :---: |

4th Grade Mathematics Curriculum Map 2023

|  |  | ActiView <br> Brain Pop <br> My Math |  |  |
| :--- | :--- | :--- | :--- | :--- |

4th Grade Mathematics Curriculum Map 2023


## 4th Grade Mathematics Curriculum Map 2023

|  | measurements in fractions of a <br> unit $(1 / 2,1 / 4,1 / 8)$. Solve <br> problems involving addition and <br> subtraction of fractions by using <br> information presented in line <br> plots. | Teacher Technology: <br> Promethean Board/Activ Panel <br> YouTube Videos <br> ActiView <br> Brain Pop <br> My Math |  |
| :--- | :--- | :--- | :--- | :--- |

4th Grade Mathematics Curriculum Map 2023

| June | 4.G. 1 Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures. <br> 4.G. 2 Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles. <br> 4.G. Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry. <br> 4.MD. 5 Recognize angles as geometric shapes that are formed wherever two rays share a common endpoint, and understand concepts of angle measurement. <br> 4.MD.5a Recognize angles as geometric shapes that are formed wherever two rays share a common endpoint, and understand concepts of angle | -Identify 2 dimensional figures and understand their attributes <br> -Identify 3 dimensional figures and understand their attributes <br> -Define and understand congruence <br> -Define and identify: symmetry <br> -Use ordered pairs on a grid <br> -Identify lines, angles, circles <br> -Understand and create transformations <br> -Identify and create tessellations <br> -Understand spatial relationships <br> Instructional Resources: <br> MyMath Textbook <br> Student Technology: <br> Kahoot <br> Study Island <br> Google Classroom <br> Chromebook/ IPad <br> IXL <br> Fun4thebrain | Formative Assessments: <br> Chapter PreTest <br> Shapes Quiz <br> Homework/Classwork <br> Summative Assessment: <br> Chapter Test <br> Benchmark Assessments: <br> LinkIt EOY Benchmark <br> 4th Grade EOY Benchmark <br> Accommodations and <br> Modifications | Interdisciplinary Standard: <br> RI 4.7 Create a house diagram including geometric points, lines, and rays. Include a key and paragraph explaining the diagram. <br> Technology Standard: 8.2.5.ED.2: Collaborate with peers to collect information and brainstorm to solve a problem. |
| :---: | :---: | :---: | :---: | :---: |

4th Grade Mathematics Curriculum Map 2023


4th Grade Mathematics Curriculum Map 2023

|  | equation with a symbol for the <br> unknown angle measure. |  |  |
| :--- | :--- | :--- | :--- |

Alternate Assessments: Thanksgiving Budget; Identifying Geometry in Nature ( Label/Draw/Written explanations)
21st Century Standards: Critical Thinking and Collaboration
21st Century Skills:9.1.4.B. 1 and 9.1.4.B. 3
Career Ready Practices: CRP2, CRP 4, CRP 8

