## 3rd Grade Math Curriculum 2023

| Pacing <br> Guide | Standard Code \& Indicator | Sample Learning Activities | Sample Assessments | Additional Standards |
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| AugustOctober | 3.NBT. 1 Use place value understanding to round whole numbers to the nearest 10 or 100. <br> 3.NBT. 2 Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction. <br> 3.OA. 8 Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and | -Read, write, and identify the place value of whole numbers through thousands. <br> -Use place value to compare numbers. <br> -Use a number line and place value to order numbers through thousands. <br> -Round numbers to the nearest ten \& hundred. <br> -Use the four step plan to solve problems. <br> -Use addition properties to add whole numbers. <br> -Use place value to identify addition patterns. <br> -Estimate sums using rounding. -Use models to explore adding three-digit numbers | Formative Assessments: <br> Chapter Pretest <br> Place Value Quiz <br> Turn \& Talk <br> Classwork/Homework <br> Summative Assessments: <br> Chapter Test <br> Benchmark Assessment: <br> BOY Benchmark <br> LinkIt BOY Benchmark <br> Accommodations and <br> Modifications | Interdisciplinary <br> Standard: <br> RL3.1 Read. Place <br> Value: The Next Stage by Claire Piddock <br> Technology Standard: 8.2.5.ED.2: <br> Collaborate with peers to collect information and brainstorm to solve a problem. |



|  |  | STAR <br> Fun4theBrain <br> Xtra Math <br> Prodigy <br> Espark |  |  |
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| NovemberDecember | 3.OA. 1 Interpret products of whole numbers,e.g.,interpret $5 \times 7$ as the total number of objects in 5 groups of 7 objects each. <br> 3.OA. 2 Interpret whole-number quotients of whole numbers, e.g., interpret $56 \div 8$ as the number of objects in each share when 56 objects are partitioned equally into8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each. <br> 3.OA. 3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a | -Use models to explore the meaning of multiplication. <br> -Relate multiplication and addition. <br> -Use arrays to model multiplication. <br> -Use the make a table strategy to multiply. <br> -Use multiplication to find the total number of combinations that can be made when given two groups of objects. <br> -Model division as equal sharing. <br> -Use models to relate division and subtraction. <br> -Explore how division and multiplication are related. <br> -Divide using related multiplication facts. | Formative Assessments: <br> Chapter Pretest <br> Multiplication Quiz <br> Turn \& Talk <br> Classwork/Homework <br> Summative Assessments: <br> Chapter Test <br> Accommodations and Modifications | Interdisciplinary <br> Standard: <br> Visual and Performing <br> Arts 1.5.5.Cr2a: <br> Finding patterns (multiplication) in nature, music and visual arts. <br> Technology Standard: 8.2.5.ED.2: <br> Collaborate with peers to collect information and brainstorm to solve a problem. |



|  | 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> 3.OA.9 Identify arithmetic patterns(including patterns in the addition table or multiplication table), and explain them using properties of operations. | -Apply the Associative Property of Multiplication to find products. <br> -Represent and solve two step word problems using equations with a variable. <br> Instructional Resources: <br> Big Ideas Textbook \& Student Workbook <br> Teacher Technology: <br> Promethean Board/Activ Panel <br> YouTube Videos <br> ActiView <br> Brain Pop <br> My Math <br> Student Technology: <br> Study Island <br> Google Classroom <br> Chromebook/Ipads <br> STAR <br> Fun4theBrain <br> Xtra Math <br> Prodigy <br> Espark |  |  |
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| JanuaryFebruary | 3NF. 1 Understand a fraction $1 / b$ as the quantityformedby1 part when a whole is partitioned into $b$ equal parts; understand a fraction $a / b$ as the quantity formed by $a$ parts of size $1 / b$. | -Explore and model unit fractions. <br> -Read and write fractions that name part of a whole. | Formative Assessments: <br> Chapter Pretest <br> Fractions Quiz <br> Turn \& Talk <br> Classwork/Homework | Interdisciplinary Standard: Health 2.2.5.N.1: Food Energy and You. <br> Technology Standard |




|  | 3.OA.9 Identify arithmetic patterns <br> (including patterns in the addition table <br> or multiplication table), and explain <br> them using properties of operations |  |  |  |
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| multiplication and addition. <br> 3.MD7A Find the area of a rectangle with whole-number side lengths by tiling it, and show that the area is the same as would be found by multiplying the side lengths. <br> 3.MD.7.B Multiply side lengths to find areas of rectangles with whole-number side lengths in the context of solving real world and mathematical problems, and represent whole-number products as rectangular areas in mathematical reasoning. <br> 3.MD.7.C Use tiling to show in a concrete case that the area of a rectangle with whole-number side lengths $a$ and $b+c$ is the sum of $a \times b$ and $a \times c$. Use area models to represent the distributive property in mathematical reasoning. <br> 3.MD.7.D Recognize area as additive. Find areas of rectilinear figures by decomposing them into non-overlapping rectangles and adding the areas of the non-overlapping parts, applying this technique to solve real world problems. | -Partition shapes into equal sections and write unit fractions to represent each area. <br> Instructional Resources: <br> Big Ideas Textbook \& Student Workbook <br> Teacher Technology: <br> Promethean Board/Activ Panel <br> YouTube Videos <br> ActiView <br> Brain Pop <br> My Math <br> Student Technology: <br> Study Island <br> Google Classroom <br> Chromebook/Ipads <br> STAR <br> Fun4theBrain <br> Xtra Math <br> Prodigy <br> Espark |  |  |
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|  | 3.MD.8 Solve real world and <br> mathematical problems involving <br> perimeters of polygons, including <br> finding the perimeter given the <br> side lengths, finding an unknown <br> side length, and exhibiting <br> rectangles with the same perimeter <br> and different areas or with the <br> same area and different perimeter. |  |  |
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|  | 3.OA.8 Solve two-step word problems <br> using the four operations. Represent <br> these problems using equations with a <br> letter standing for the unknown quantity. |  |  |
| Assess the reasonableness of answers <br> using mental computation and <br> estimation strategies including <br> rounding. | 3.OA.9 Identify arithmetic patterns <br> (including patterns in the addition table <br> or multiplication table), and explain <br> them using properties of operations |  |  |
| May-June | 3.MD.3 Draw a scaled picture graph <br> and a scaled bar graph to represent a <br> data set with several categories. Solve <br> one-and two-step "how many more" and | -Collect and record data through <br> observations and surveys. | Formative Assessments: <br> Chapter Pretest <br> Graphing Quiz <br> Turn \& Talk |


| "how many less" problems using information presented in scaled bar graphs. <br> 3.MD. 4 Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units- whole numbers, halves, or quarters. <br> 3.OA. 8 Solve two-step word problems using the four operations. 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> 3.OA. 9 Identify arithmetic patterns <br> (including patterns in the addition table or multiplication table), and explain them using properties of operations. <br> 3.MD. 1 Tell and write time to the nearest minute and measure time intervals in minutes. Solve word | -Relate bar graphs to scaled picture graphs. <br> -Draw, organize, and analyze data in line plots. <br> -Measure lengths to the nearest half inch and nearest quarter. <br> -Collect and display measurement data to fractions of an inch. <br> -Explore estimating and measuring liquid volume using metric units of capacity. <br> -Use four operations to solve one step word problems involving liquid volume. <br> -Explore estimating and measuring metric units of mass. <br> -Use the four operations to solve one step word problems involving mass. <br> -Tell time to the nearest minute. <br> -Determine time intervals to solve problems. <br> Instructional Resources: <br> Big Ideas Textbook \& Student Workbook | Classwork/Homework <br> Summative <br> Assessment: <br> Chapter Test <br> Benchmark Assessment: <br> EOY Benchmark <br> LinkIT BOY Benchmark <br> Accommodations and Modifications | Social Studies <br> 6.1.5.EconET.2: <br> Populations on the Rise Graph Analysis <br> Technology Standard: <br> 8.2.5.ED.2: <br> Collaborate with peers to collect information and brainstorm to solve a problem. |
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Alternate Assessments: Pie Making Community Service Project \& Explain what a budget is and Why it's important
21st Century Standards: 9.1.4.A.2, 9.1.4.B.5 \& 9.1.4.B. 3
21st Century Skills: Collaboration, Communication \& Social Skills
Career Ready Practices: CRP5 \& CRP1

