

4th Grade Math Curriculum Calendar 2021-22

	Benchmark Dates	OK Academic Standards
1 st 9 wks.	<p>Aug. 12-Sept. 2 (Sept. 3) Place value/ Money</p> <p>Sept. 7-Sept. 16 (Sept. 17) Estimating/ multi-digit multiplication</p> <p>Sept. 20-Oct. 7 (Oct. 8) Long Division</p> <p style="text-align: center;">Benchmark test dates in parenthesis</p>	<p>4.N.1.2 Use an understanding of place value to multiply or divide a number by 10, 100 and 1,000.</p> <p>4.N.2.5 Represent tenths and hundredths with concrete models, making connections between fractions and decimals.</p> <p>4.N.2.7 Compare and order decimals and whole numbers using place value, a number line and models such as grids and base 10 blocks.</p> <p>4.N.2.2 Use benchmark fractions (0, 1/4, 1/3, 1/2, 2/3, 3/4, 1) to locate additional fractions on a number line. Use models to order and compare whole numbers and fractions less than and greater than one using comparative language and symbols.</p> <p>4.N.2.6 Represent, read and write decimals up to at least the hundredths place in a variety of contexts including money.</p> <p>4.N.2.8 Compare benchmark fractions (1/4, 1/3, 1/2, 2/3, 3/4) and decimals (0.25, 0.50, 0.75) in real-world and mathematical situations.</p> <p>4.N.3.1 Given a total cost (whole dollars up to \$20 or coins) and amount paid (whole dollars up to \$20 or coins), find the change required in a variety of ways. Limited to whole dollars up to \$20 or sets of coins.</p> <p>4.N.1.4 Estimate products of 3-digit by 1-digit or 2-digit by 2-digit whole numbers using rounding, benchmarks and place value to assess the reasonableness of results. Explore larger numbers using technology to investigate patterns.</p> <p>4.N.1.3 Multiply 3-digit by 1-digit or a 2-digit by 2-digit whole numbers, using efficient and generalizable procedures and strategies, based on knowledge of place value, including but not limited to standard algorithms.</p> <p>4.N.1.3 Multiply 3-digit by 1-digit or a 2-digit by 2-digit whole numbers, using efficient and generalizable procedures and strategies, based on knowledge of place value, including but not limited to standard algorithms.</p> <p>4.N.1.6 Use strategies and algorithms based on knowledge of place value, equality and properties of operations to divide 3-digit dividend by 1-digit whole number divisors. (e.g., mental</p>

		<p>strategies, standard algorithms, partial quotients, repeated subtraction, the commutative, associative, and distributive properties).</p> <p>4.N.1.6 Use strategies and algorithms based on knowledge of place value, equality and properties of operations to divide 3-digit dividend by 1-digit whole number divisors. (e.g., mental strategies, standard algorithms, partial quotients, repeated subtraction, the commutative, associative, and distributive properties).</p> <p>4.N.1.5 Solve multi-step real-world and mathematical problems requiring the use of addition, subtraction, and multiplication of multi-digit whole numbers. Use various strategies, including the relationship between operations, the use of appropriate technology, and the context of the problem to assess the reasonableness of results.</p>
2 nd 9 wks.	<p>Oct.11- Oct. 21 (Oct. 22) Multi-step and Unknowns</p> <p>Oct. 25-Nov. 4 (Nov. 5) In and out box, patterns</p> <p>Nov. 8- Dec. 2 (Dec. 3) Geometry, quads, 3d shapes</p> <p>Benchmark test dates in parenthesis</p>	<p>4.N.1.7 Determine the unknown addend(s) or factor(s) in equivalent and non-equivalent expressions. (e.g., $5 + 6 = 4 + \square$, $3 \times 8 < 3 \times \square$).</p> <p>4.A.2.1 Use number sense, properties of multiplication and the relationship between multiplication and division to solve problems and find values for the unknowns represented by letters and symbols that make number sentences true.</p> <p>4.A.2.2 Solve for unknowns in problems by solving open sentences (equations) and other problems involving addition, subtraction, multiplication, or division with whole numbers. Use real-world situations to represent number sentences and vice versa</p> <p>4.A.1.1 Create an input/output chart or table to represent or extend a numerical pattern.</p> <p>4.A.1.2 Describe the single operation rule for a pattern from an input/output table or function machine involving any operation of a whole number.</p> <p>4.A.1.1 Create an input/output chart or table to represent or extend a numerical pattern.</p> <p>4.A.1.2 Describe the single operation rule for a pattern from an input/output table or function machine involving any operation of a whole number.</p> <p>4.A.1.3 Create growth patterns involving geometric shapes and define the single operation rule of the pattern</p> <p>4.GM.1.1 Identify points, lines, line segments, rays, angles, endpoints, and parallel and perpendicular lines in various contexts.</p> <p>4.GM.2.1 Measure angles in geometric figures and real-world objects with a protractor or angle ruler.</p>

		<p>4.GM.1.2 Describe, classify, and sketch quadrilaterals, including squares, rectangles, trapezoids, rhombuses, parallelograms, and kites. Recognize quadrilaterals in various contexts.</p> <p>4.GM.1.3 Given two three dimensional shapes, identify similarities, and differences.</p> <p>4.D.1.2 Use tables, bar graphs, timelines, and Venn diagrams to display data sets. The data may include benchmark fractions or decimals ($1/4$, $1/3$, $1/2$, $2/3$, $3/4$, 0.25, 0.50, 0.75).</p> <p>4.D.1.1 Represent data on a frequency table or line plot marked with whole numbers and fractions using appropriate titles, labels, and units.</p>
<p>3rd 9 wks.</p>	<p>Jan. 4- Jan. 13 (Jan. 14) Area and volume</p> <p>Jan. 18- Jan. 20 (Jan. 21) Place value, Graphs</p> <p>Jan. 24-Feb. 3 (Feb. 4) Fractions</p> <p>Feb. 7- Feb. 24 (Feb. 25) Measurement and time</p> <p>Feb. 28-Mar. 3 (Mar. 4) Data and graphs</p> <p>Benchmark test dates in parenthesis</p>	<p>4.GM.2.2 Find the area of polygons that can be decomposed into rectangles.</p> <p>4.GM.2.2 Find the area of polygons that can be decomposed into rectangles.</p> <p>4.GM.2.3 Using a variety of tools and strategies, develop the concept that the volume of rectangular prisms with whole-number edge lengths can be found by counting the total number of same-sized unit cubes that fill a shape without gaps or overlaps. Use appropriate measurements such as cm^3.</p> <p>4.N.2.7 Compare and order decimals and whole numbers using place value, a number line and models such as grids and base 10 blocks.</p> <p>4.N.2.2 Use benchmark fractions (0, $1/4$, $1/3$, $1/2$, $2/3$, $3/4$, 1) to locate additional fractions on a number line. Use models to order and compare whole numbers and fractions less than and greater than one using comparative language and symbols.</p> <p>4.N.2.8 Compare benchmark fractions ($1/4$, $1/3$, $1/2$, $2/3$, $3/4$) and decimals (0.25, 0.50, 0.75) in real-world and mathematical situations.</p> <p>4.N.2.3 Decompose a fraction in more than one way into a sum of fractions with the same denominator using concrete and pictorial models and recording results with symbolic representations (e.g., $3/4 = 1/4 + 1/4 + 1/4$).</p> <p>4.N.2.4 Use fraction models to add and subtract fractions with like denominators in real-world and mathematical situations.</p> <p>4.N.2.1 Represent and rename equivalent fractions using fraction models (e.g. parts of a set, area models, fraction strips, number</p>

		<p>lines).</p> <p>4.GM.2.4 Choose an appropriate instrument and measure the length of an object to the nearest whole centimeter or quarter-inch.</p> <p>4.GM.2.5 Solve problems that deal with measurements of length, when to use liquid volumes, when to use mass, temperatures above zero and money using addition, subtraction, multiplication, or division as appropriate (customary and metric).</p> <p>4.GM.3.1 Determine elapsed time.</p> <p>4.GM.3.2 Solve problems involving the conversion of one measure of time to another.</p> <p>4.D.1.3 Solve one- and two-step problems using data in whole number, decimal, or fraction form in a frequency table and line plot.</p>
<p>4th 9 wks .</p>	<p>March after Spring Break will be for testing review.</p> <p>April is testing.</p> <p>May is review & preparations for the next grade.</p>	