

MSD Wayne Township Schools  
 Mathematics  
 Grade 4



*Eureka Math*<sup>2</sup> serves as the primary curriculum material for grade 4 Mathematics instruction and has been adapted to ensure alignment with the [Indiana Academic Standards for Mathematics](#).

\*Timing is approximate and pacing of units is flexible.

Timing	Topic	Student Learning Outcomes
Quarter 1	Place Value Concepts for Addition and Subtraction	Students will: <ul style="list-style-type: none"> <li>● Create two comparison statements, given a multiplication equation.</li> <li>● Write multiplicative comparison statements as multiplication equations.</li> <li>● Solve word problems involving multiplicative comparison by using multiplication or division within 100.</li> <li>● Assess reasonableness of estimates when using rounding as an estimation strategy.</li> <li>● Solve multi-step word problems by using addition and subtraction, represent these problems by using equations, and assess the reasonableness of the answers.</li> <li>● Explain the relationship between a digit in a multi-digit whole number and the same digit in the place to the right.</li> <li>● Read and write multi-digit whole numbers in unit, standard, word, and expanded form.</li> <li>● Compare two whole numbers by using <math>&gt;</math>, <math>=</math>, or <math>&lt;</math>.</li> <li>● Round multi-digit whole numbers.</li> <li>● Add and subtract multi-digit whole numbers by using the standard algorithm.</li> <li>● Express larger units in terms of a smaller unit within the metric system in a table.</li> <li>● Solve addition and subtraction word problems that require expressing measurements of larger units in terms of given smaller units.</li> </ul>



<p>Quarters 1-2</p>	<p>Place Value Concepts for Multiplication and Division</p>	<p>Students will:</p> <ul style="list-style-type: none"> <li>● Solve word problems involving multiplicative comparison by using two-digit by one-digit multiplication or dividing tens and ones by one-digit numbers.</li> <li>● Find whole number factor pairs in the range 1–100.</li> <li>● Identify a multiple of a given whole number in the range 1–100.</li> <li>● Determine whether a whole number up to 100 is prime or composite.</li> <li>● Create a pattern that follows a given rule and identify additional features of that pattern.</li> <li>● Multiply a two-digit whole number by a one-digit whole number.</li> <li>● Divide by a one-digit whole number using tens and ones.</li> <li>● Express larger units of length in terms of a smaller unit within the customary system in a table.</li> <li>● Solve word problems that require expressing measurements of larger units of length in terms of a smaller unit within the customary system.</li> <li>● Represent measurement quantities by using diagrams.</li> <li>● Solve area and perimeter problems.</li> </ul>
<p>Quarter 2</p>	<p>Multiplication and Division of Multi-Digit Numbers</p>	<p>Students will:</p> <ul style="list-style-type: none"> <li>● Solve multi-step word problems by using the four operations, including problems that require interpreting remainders in context, represent these problems by using equations, and assess reasonableness of answers.</li> <li>● Multiply/divide whole numbers of up to four digits by one-digit whole numbers, and multiply 2 two-digit whole numbers.</li> <li>● Express larger units of time, customary units of weight, and liquid volumes in terms of a smaller unit by using tables.</li> <li>● Solve word problems that require expressing measurements of larger units of time, customary units of weight, and liquid volumes, in terms of a smaller unit.</li> </ul>
<p>Quarter 3</p>	<p>Foundations for</p>	<p>Students will:</p>



MSD Wayne Township Schools  
 Mathematics  
 Grade 4

	Fraction Operations	<ul style="list-style-type: none"> <li>● Model and explain why a fraction <math>a/b</math> is equivalent to a fraction <math>(n \times a)/(n \times b)</math>.</li> <li>● Generate equivalent fractions and their representations.</li> <li>● Compare two fractions with different numerators and different denominators and justify the conclusions.</li> <li>● Decompose fractions into a sum of fractions with the same denominator in more than one way.</li> <li>● Add/subtract mixed numbers with like denominators.</li> <li>● Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators.</li> <li>● Represent fractions as multiples of unit fractions with the same denominator.</li> <li>● Multiply a fraction by a whole number.</li> <li>● Solve word problems involving multiplication of a fraction by a whole number.</li> <li>● Create a line plot to display a data set of measurements in fractions of a unit (<math>1/2</math>, <math>1/4</math>, <math>1/8</math>) and solve problems involving addition and subtraction of fractions by using the line plot.</li> </ul>
Quarter 3	Place Value Concepts for Decimal Fractions	<p>Students will:</p> <ul style="list-style-type: none"> <li>● Express fractions with denominator 10 as equivalent fractions with denominator 100.</li> <li>● Add two fractions with respective denominators 10 and 100.</li> <li>● Represent tenths and hundredths in decimal form, fraction form, or by using a model.</li> <li>● Compare two decimal numbers to hundredths and justify the conclusions.</li> <li>● Solve word problems involving addition of decimal numbers.</li> </ul>
Quarter 4	Angle Measurements and Plane Figures	<p>Students will:</p> <ul style="list-style-type: none"> <li>● Convert between angle measures expressed as a fractional turn through a circle and degrees.</li> <li>● Measure and draw angles in degrees.</li> <li>● Solve for unknown angle measures by using addition and subtraction.</li> <li>● Identify and draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines.</li> </ul>



		<ul style="list-style-type: none"><li>• Identify points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines in two-dimensional figures.</li><li>• Identify attributes and use them to classify two-dimensional figures, including triangles.</li><li>• Identify and draw lines of symmetry.</li></ul>
--	--	--

