

**Clayton County Curriculum Guide
Elementary Mathematics
Grade 4**

Unit 1

Teaching Time	Georgia Performance Standards Addressed	Houghton Mifflin Resources	Assessment/Performance Task	Vocabulary Focus
	<p>M4N1 Students will further develop their understanding of how whole numbers and decimals are represented in the base-ten numeration system.</p>			Place value Base ten Periods Millions
5 days	<p><i>M4N1 (a) Identify place value names and places from hundredths through one million.</i></p>	1.2, 1.4, 2.1, 2.4		Standard form Expanded form Word form Digit Round Estimate
5 days	<p><i>M4N1 (b) Equate a number's word name, its standard form, and its expanded form.</i></p>	1.5, 2.2		Dividend Divisor Quotient Remainder Decimals Hundredths
				Equate

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3 days	M4N2 Students will understand and apply the concept of rounding numbers. <i>M4N2 (a) Round numbers to the nearest ten, hundred, or thousand.</i>	2.5, 22.2		
3 days	<i>M4N2 (b) Describe situations in which rounding numbers would be appropriate and determine whether to round to the nearest ten, hundred, or thousand.</i>	2.5, 3.3, 3.4, 3.8		
3 days	<i>M4N2 (c) Determine to which whole number or tenth a given decimal is closest using tools such as a number line, and/or charts.</i>	22.1, 22.2		
3 days	<i>M4N2 (d) Round a decimal to the nearest whole number or tenth.</i>	22.1, 22.2		
2 days	<i>M4N2 (e) Represent the results of computation as a rounded number when appropriate and estimate a sum or difference by rounding.</i>	See sample lesson plan		

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2 days	M4N3 Students will solve problems involving multiplication of 2-3 digit numbers by 1 or 2 digit numbers.	4.6, 6.1, 6.3, 6.4, 6.6, 7.4, 7.5, 7.6		
	M4N4 Students will further develop their understanding of division of whole numbers and divide in problem solving situations without calculators.			
3 days	<i>M4N4 (a) Know the division facts with understanding and fluency.</i>	4.4, 4.5, 4.6, 4.9, 8.5, 8.6, 9.2, 9.3, 9.4, 9.6		
4 days	<i>M4N4 (b) Solve problems involving division by 1 or a 2-digit numbers (including those that generate a remainder).</i>	8.2, 8.3, 8.4, 11.3, 11.4, 11.5, 11.6		

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4 days	<i>M4N4 (c) Understand the relationship between dividend, divisor, quotient, and remainder.</i>	9.1, 9.2, 9.4, 9.6		
3 days	<i>M4N4 (d) Understand and explain the effect on the quotient of multiplying or dividing both the divisor and dividend by the same number. (2050 $\overline{)50}$ yields the same answer as 205/5).</i>	9.1		

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Unit 2

Teaching Time	Georgia Performance Standards Addressed	Houghton Mifflin Resources	Assessment/Performance Task	Vocabulary Focus
	M4N5 Students will further develop their understanding of the meaning of decimals and use them in computations.			Base ten Order Compare Greater than Less than Equal to Tenths Hundredths Decimal Zero property Commutative property of addition Associative property Distributive property Inverse operations Variable
4 days	<i>M4N5 (a) Understand decimals are a part of the base-ten system.</i>	21.1, 21.2, 21.3		Range Median Mode <i>Line graphs</i> <i>Line plot graph,</i> <i>Pictograph</i> <i>Venn diagrams Bar graphs.</i>
4 days	<i>M4N5 (b) Understand the relative size of numbers and order two digit decimals.</i>	21.6, 21.7		
4 days	<i>M4N5 (c) Add and subtract both one and two digit decimals.</i>	22.3, 22.4		

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Teaching Time	Georgia Performance Standards Addressed	Houghton Mifflin Resources	Assessment/Performance Task	Vocabulary Focus
3 days	<i>M4N5 (d) Model multiplication and division of decimals by whole numbers.</i>	23.1, 23.3		
3 days	<i>M4N5 (e) Multiply and divide both one and two digit decimals by whole numbers.</i>	23.2, 23.5		
	M4N7 Students will explain and use properties of the four arithmetic operations to solve and check problems.			
8 days	<i>M4N7 (a) Describe situations in which the four operations may be used and the relationships among them.</i>	3.1, 3.3, 3.5, 3.6, 3.7, 3.8, 4.1, 4.2, 4.3		

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Teaching Time	Georgia Performance Standards Addressed	Houghton Mifflin Resources	Assessment/Performance Task	Vocabulary Focus
2 days	<i>M4N7 (b) Compute using the order of operations, including parentheses.</i>	5.1		
3 days	<i>M4N7 (c) Compute using the commutative, associative, and distributive properties.</i>	3.1, 4.1, 4.7		
3 days	<i>M4N7 (d) Use mental math and estimation strategies to compute.</i>	3.2, 3.3		

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Teaching Time	Georgia Performance Standards Addressed	Houghton Mifflin Resources	Assessment/Performance Task	Vocabulary Focus
	M4A1 Students will represent and interpret mathematical relationships in quantitative expressions.			
2 days	<i>M4A1 (a) Understand and apply patterns and rules to describe relationships and solve problems.</i>	4.3, 5.5, 5.6, 5.7		
2 days	<i>M4A1 (b) Represent unknowns using symbols, such as \square and Δ.</i>	4.1, 4.4, 5.1		
2 days	<i>M4A1 (c) Write and evaluate mathematical expressions using symbols and different values.</i>	5.2, 5.3, 5.4		

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Unit 3

Teaching Time	Georgia Performance Standards Addressed	Houghton Mifflin Resources	Assessment/Performance Task	Vocabulary Focus
	M4N6 Students will further develop their understanding of the meaning of decimal fractions and common fractions and use them in computations.			Fractions Equivalent Mixed numbers Numerator
7 days	<i>M4N6 (a) Understand representations of equivalent common fractions and/or decimal fractions.</i>	19.2, 19.3, 19.4, 19.7, 20.1, 20.2, 21.3, 21.4		Denominator Improper Common denominator Tally chart
4 days	<i>M4N6 (b) Add and subtract fractions and mixed numbers with like denominators. (Denominators should not exceed 12.)</i>	19.6		Fraction double Bar graph Key Interval Line graph Pictograph
5 days	<i>M4N6 (c) Use mixed numbers and improper fractions interchangeably.</i>	20.3, 20.5, 20.8, 21.5		Decimal Fractions Common fractions

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Teaching Time	Georgia Performance Standards Addressed	Houghton Mifflin Resources	Assessment/Performance Task	Vocabulary Focus
2 days	<p>M4D1 Students will gather, organize, and display data according to the situation and will compare related features.</p> <p><i>M4D1 (a) Construct and interpret line graphs, line plot graphs, pictographs, Venn diagrams, and bar graphs.</i></p>	15.1, 15.5		
2 days	<p><i>M4D1 (b) Investigate the features and tendencies of graphs.</i></p>	15.2, 15.3, 15.4		
2 days	<p><i>M4D1 (c) Compare different graphical representations for a given set of data.</i></p>	15.5		
1 days	<p><i>M4D1 (d) Identify missing information and duplications in data.</i></p>	14.1		
2 days	<p><i>M4D1 (e) Determine and justify the range, mode, and median of a set of data.</i></p>	14.3, 14.4		

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Teaching Time	Georgia Performance Standards Addressed	Houghton Mifflin Resources	Assessment/Performance Task	Vocabulary Focus
3 Days	<p>M4G1 Students will define and identify the characteristics of geometric figures through examination and construction.</p> <p><i>M4G1 (a) Examine and compare angles in order to classify and identify triangles by their angles.</i></p>	16.2, 16.5		Angles Compare Classify Triangle Parallel Perpendicular Plane Geometric Figure Quadrilateral Parallelogram Square Rectangle Trapezoid Rhombus Geometry Solid Cube Rectangular Prism Faces Edges Vertices Properties Pyramids Spheres Cones Nets
3 Days	<p><i>M4G1 (b) Describe parallel and perpendicular lines in plane geometric figures.</i></p>	16.1		
3 Days	<p><i>M4G1 (c) Examine and classify quadrilaterals (including parallelograms, squares, rectangles, trapezoids, and rhombi) by their properties.</i></p>	16.4		
6 Days	<p><i>M4G1 (d) Compare and contrast the relationships among quadrilaterals.</i></p>	16.4		

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Teaching Time	Georgia Performance Standards Addressed	Houghton Mifflin Resources	Assessment/Performance Task	Vocabulary Focus
	M4G2 Students will understand fundamental solid figures.			
4 Days	<i>M4G2 (a) Compare and contrast a cube and a rectangular prism in terms of the number and shape of their faces, edges, and vertices.</i>	Math Expressions Mini Unit E E1, E2, E3		
4 Days	<i>M4G2 (b) Describe parallel and perpendicular lines and planes in connections with the rectangular prism.</i>	18.5		
5 Days	<i>M4G2 (c) Build/collect models for solid geometric figures (cube, prisms, cylinder, pyramids, spheres, and cones) using nets and other representations.</i>	18.5		

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Teaching Time	Georgia Performance Standards Addressed	Houghton Mifflin Resources	Assessment/Performance Task	Vocabulary Focus
	M4G3 Students will use the coordinate system.			Geometry Coordinate Quadrant Ordered Pair Point X Axis Y Axis Axes Origine
4 Days	<i>M4G3 (a) Understand and apply ordered pairs in the first quadrant of the coordinate system.</i>	24.1, 14.2		
4 Days	<i>M4G3 (b) Locate a point in the first quadrant in the coordinate plane and name the ordered pair.</i>	24.1		
4 Days	<i>M4G3 (c) Graph ordered pairs in the first quadrant.</i>	24.2, 24.3		

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Unit 5

Teaching Time	Georgia Performance Standards Addressed	Houghton Mifflin Resources	Assessment/Performance Task	Vocabulary Focus
	M4M2 Students will understand the concept of angles and how to measure them.			Angle Protractor Angle Ruler Acute Angle Right Angle Obtuse Angle Degrees Half-Rotation Full Rotation Sum
2 days	<i>M4M2 (a) Use tools, such as a protractor or angle ruler, and other methods such as paper folding, drawing a diagonal in a square, to measure angles.</i>	16.3		
2 days	<i>M4M2 (b) Understand the meaning and measure of a half rotation (180 degrees) and a full rotation (360 degrees).</i>	17.2		Weight Standard (US Customary) Metric Gram Kilogram Ounce Pound Ton Compare Convert
2 days	<i>M4M2 (c) Determine that the sum of the three angles of a triangle is always 180°.</i>	http://www.harrisonburg.k12.va.us/math/pacing/6ess/Exploring%20Triangles.doc		

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Unit 5

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	M4M1 Students will understand the concept of weight and how to measure it.			
2 days	<i>M4M1 (a) Use standard and metric units to measure the weight of objects.</i>	12.4		
2 days	<i>M4M1 (b) Know units used to measure weight (gram, kilogram, ounce, pound, and ton).</i>	12.9		
5 days	<i>M4M1 (c) Compare one unit to another within a single system of measurement.</i>	12.8		

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