

<p>1st Grade Math Curriculum Focal Points</p>	<p>Grades 4K, 5K, 1, 2 Strategies</p>	<p>Address these Focal Points in contexts of the Process Standards: problem solving, reasoning, communication, making connections, and designing and analyzing representations</p>
<p>Number and Operations: Developing understandings of addition and subtraction and strategies for basic addition facts and related subtraction facts(to 20).</p> <ul style="list-style-type: none"> • Develop strategies for adding and subtracting whole numbers • Understand the connections between counting and the operations of addition and subtraction • Use properties of addition (commutativity and associativity) <p>Understand the sequential order of the counting numbers and their relative magnitudes and represent numbers on a number line.</p>	<p><u>Number and Operations</u></p> <p>1.a (5K) Develop understanding of the relative position and magnitude of whole numbers and of ordinal and cardinal numbers and their connections.</p> <p>1.b (2) Develop a sense of whole numbers (to 20) and represent and use them in flexible ways, including relating, composing, and decomposing numbers (e.g., family facts [1, 3, 4]) (no regrouping until Grade 2).</p> <p>1.c (5K) Connect number words and numerals to the quantities they represent, using various physical models and representations.</p> <p>1.d Understand various meanings of addition and subtraction of whole numbers and the relationship between the two operations.</p> <p>1.e Understand effects of adding and subtracting whole numbers.</p> <p><u>Algebra</u></p> <p>1.f Illustrate general principles and properties of operations such as commutative, associative, identity.</p> <p>1.g (5K) Use concrete, pictorial, and verbal representations to develop an understanding of invented and conventional symbolic notations.</p> <p>1.h (2) Model situations that involve the addition and subtraction of whole numbers, using objects, pictures, and symbols.</p> <p>1.i (2) Describe quantitative change, such as a student’s growing two inches in one year.</p>	

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<p>Number and Operations and Algebra: Developing an understanding of whole number relationships, including grouping in tens and ones.</p> <ul style="list-style-type: none"> • Compare and order whole numbers (at least to 100) • Compare and order whole numbers (10-100) in terms of groups of tens and ones. <p>Geometry: Composing and decomposing geometric shapes.</p> <ul style="list-style-type: none"> • Compose and decompose plane and solid figures (2 isosceles triangles = rhombus, etc.) • Initial understanding of such properties as congruence and symmetry. • Describe geometric attributes and properties. 	<p><u>Geometry</u></p> <p>1.j (4K, 5K) Recognize, build, draw, compare and sort two- and three-dimensional shapes and name two-dimensional shapes.</p> <p>1.k (4K) Describe attributes and parts of two- and three-dimensional shapes.</p> <p>1.l Investigate and predict the results of putting together and taking apart two- and three-dimensional shapes.</p> <p>1.m Recognize and create shapes that have symmetry.</p> <p>1.n (4K, 5K) Create mental images of geometric shapes using spatial memory and spatial visualization.</p> <p>1.o Recognize and represent shapes from different perspectives.</p> <p>1.p (5K) Recognize geometric shapes and structures in the environment and specify their location.</p> <p><u>Measurement</u></p> <p>1.q (4K, 5K) Recognize the attributes of length, volume, weight, area, and time.</p>	

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	<p><u>Data Analysis and Probability</u></p> <p>1.r (4K, 5K) Sort and classify objects according to their attributes and organize data about the objects.</p> <p>1.s Represent data using concrete objects, pictures, and graphs.</p> <p>1.t (5K) Describe parts of the data and the set of data as a whole to determine what the data show.</p> <p>Critical Concepts That Are Not Focal Points</p> <p>Money</p> <p>1.u Sort, classify, and name coins and denote their values.</p> <p>Time</p> <p>1.v Understand measure of time to include months of the year, days of the week, and hours of the day.</p> <p>1.w Tell time to nearest hour using analog and digital clocks.</p>	