

**Knox County Schools Mathematics Curriculum**  
**Unit 1: Number Concepts, Addition, Subtraction & Graphing**

**2nd Grade Planning Guide**  
**Time: About 5-6 weeks**

<b>Knox County Key</b>	<b>Knox County Performance Objectives/ State Assessed Performance Indicators</b>	<b>State Blueprint Key/SPI#</b>	<b>Lessons</b>	<b>Text Pages</b>
<b>Part A</b>	<b>Chapter 1</b>			
<b>A</b>	<b>1. Count a set of objects to 50 using an effective grouping strategy</b> <i>Count a set of objects to 100 by 2's, 3's, 5's, or 10's</i>	D 2.1.1a	1.1, 1.4	1a-10 17-18
<b>A</b>	<b>2. Read, write, order, and sequence numerals to 50</b> <i>Read, write, order, and sequence whole numbers less than 1,000</i>	D 2.1.1c 2.1.1	1.1, 1.2, 1.5	7-12, 19-20
<b>A</b>	<b>3. Count forward and backward by one from any number less than 50</b> <i>Count forward and backward by one from any number less than 999</i>	D 2.1.1b	1.2	11-12
<b>A</b>	<b>4. Use mathematical terms and symbols appropriately (i.e. &lt;, &gt;, and =)</b> <i>Compare two numbers using the appropriate symbol (i.e. &lt;, &gt;, and =); communicate and use mathematical terms and symbols appropriately</i>	D 2.1.1k, 2.2.3b	1.3	13-14
<b>Part B</b>	<b>Chapters 2 &amp; 3</b>			
<b>A</b>	<b>5. Use the commutative property of addition and zero property of addition and subtraction</b> <i>Demonstrate knowledge of and use the commutative property of addition; show that subtraction is not commutative; apply the addition and subtraction properties of 0 (adding or subtracting 0 doesn't change a given number)</i>	D 2.2.4 a, b, c	2.1, 3.1	27-28, 51-52
<b>A</b>	<b>6. Use the number line to demonstrate addition and subtraction to 18</b> <i>Use the number line to demonstrate addition and subtraction</i>	I 2.1.2b	2.2, 3.2	29-30, 53-54
<b>A</b>	<b>7. Add and subtract efficiently and accurately with single-digit numbers ( two and three addends) with sums to 18</b> <i>Add and subtract efficiently and accurately with single-digit numbers up to sums of 18</i>	D 2.1.3d	2.3, 2.4, 2.5, 2.6	31-40
<b>A</b>	<b>8. Identify, write, and solve number sentences for addition and subtraction in a story problem</b> <i>Write/ identify number sentences that describe situations involving addition and subtraction; solve story problems involving numbers to 100; develop a story problem that illustrates a given addition or subtraction number sentence</i>	I/D 2.1.2a, c, 2.1.3a	2.7, 3.8	41-44, 67-70

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A	<b>9. Determine the output number for a particular input number given a one-operation rule involving addition or subtraction</b> <i>Determine the output for a particular input given the one-operation function rule involving addition</i>	I 2.2.2d		46,54
A	<b>10. Show/solve/interpret number sentences and open sentences involving addition and subtraction (0-20) with manipulatives</b> <i>Show or represent number sentences involving addition and subtraction of numbers 0-20 with concrete objects</i>	D 2.2.3 a, 2.2.3 c	3.3	55-56
A	<b>11. Write and explain related addition and subtraction sentences incorporating fact families</b> <i>Write and explain related addition and subtraction sentences</i>	I 2.1.2d	3.5, 3.6	61-64
<b>Part C</b>	<b>Chapter 4</b>			
A	<b>12. Use data to answer questions</b> <i>Pose questions and gather data to answer the questions</i>	D 2.5.1	4.1, 4.3	77-80, 83-86
A	<b>13. Read/interpret and construct tables using tally marks</b> <i>Read/interpret and construct tables using tally marks</i>	D 2.5.1b	4.1, 4.3	77-80, 83-86
A	<b>14. Construct, solve, and interpret problems with tables, bar graphs, pictographs, and charts</b> <i>Construct pictographs and bar graphs; interpret and solve problems with tables, bar graphs, and pictographs</i>	D 2.5.1 c, 2.5.1 d	4.2, 4.3, 4.8	81-86, 99-102
A	<b>15. Explain whether events are certain, probable, impossible, more likely, less likely, or equally likely</b>	D 2.5.2b	4.6	93-95
A	<b>16. Predict outcomes of events based on data gathered and displayed</b>	D 2.5.2a	4.7	97-98

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<p><b>State Accomplishments</b></p> <ul style="list-style-type: none"> <li>• <i>Check for reasonableness of solutions. D pp. 19-20</i></li> <li>• <i>Estimate amounts to 50. D pp. 17-18,21</i></li> </ul> <p><b>Literature Resources:</b></p> <p><u>Betcha!</u> By Stuart Murphy  <u>Everybody Counts</u> by Stuart Murphy  <u>Two Ways to Count to Ten</u> by Ruby Dee  <u>Spunky Monkey on Parade</u> by Stuart Murphy  <u>What's a Pair? What's a Dozen?</u> by Stephen Swinburne  <u>More Than One</u> by Miriam Schlein  <u>What Comes in 2's, 3's and 4's?</u> by Suzanne Aker  <u>Just Enough Carrots</u> by Stuart Murphy  <u>More or Less</u> by Stuart Murphy  <u>A Feast for Ten</u> by Cathryn Falwell  <u>The M &amp; M Counting Book</u> by Barbara McGrath  <u>The Right Number of Elephants</u> by Jeff Sheppard  <u>100 Days of Cool</u> by Stuart Murphy  <u>How Many Snails?</u> By Paul Giganti, Jr.  <u>More, Fewer, or Less</u> by Tana Hoban  <u>Count on Pablo (Math Matters Series)</u> by Barbara Derubertis  <u>My Very Own Octopus</u> by Bernard Most  <u>Cat Up a Tree</u> by Ann Hassett  <u>Stay in Line (Hello Math Reader)</u> by Teddy Slater  <u>Two of Everything: A Chinese Folktale</u> by Lily Toy Hong</p>	<p><b>Commercial Materials/manipulatives:</b></p> <p>Cubes, hundreds chart, straws, twist ties, number line 0-20, number cards 0-20, counters, pattern blocks, straws or toothpicks, two-color counters, Math Lingo Dominoes-more or fewer, <u>Word Problems with Instant Assessment</u> by Carson Dellosa, <u>Write About Math</u> by Frank Shaffer Publications, <u>Hundred Number Board Activities</u> by Cindy Barden (Ideal School Supply), <u>Problem-Solving Math Journals for Primary Students</u> by Teacher Created Materials, <u>Young Mathematicians at Work: Constructing Number Sense, Addition, and Subtraction</u> by Catherine Twomey Fosnot, Maarten Dolk</p> <p><b>Text:</b></p> <p><u>Houghton Mifflin Math Grade 2</u>, (2005) Boston: Houghton Mifflin Company,</p> <p><b>Assessment:</b></p> <p>Knox County Schools Mathematics Second Grade, Unit 1 Test</p> <p><b>Technology:</b></p> <p>See technology resources in appendix</p> <p><b>Available in Houghton Mifflin Student Text:</b></p> <ul style="list-style-type: none"> <li>▪ Quick Checks</li> <li>▪ Chapter Review</li> <li>▪ Chapter Tests</li> </ul> <p><b>Available in Houghton Mifflin Assessment Book:</b></p> <ul style="list-style-type: none"> <li>▪ Unit Tests</li> </ul>
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