

# TOUCHMATH®



## ALIGNMENT TO NORTH CAROLINA STANDARD COURSE OF STUDY K-8 MATHEMATICS

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## Alignment to North Carolina Standard Course of Study K-8 Mathematics Grade 2

Referencing Activity Sheets in the TouchMath® Grade 2 Standards-Based Program

NC Standard Course of Study K-8 Mathematics, Grade 2	TouchMath® Unit/Module: Page Number
<b>NC.2.OA Operations and Algebraic Thinking</b>	
<b>Represent and solve problems.</b>	
<p>1. Represent and solve addition and subtraction word problems, within 100, with unknowns in all positions, by using representations and equations with a symbol for the unknown number to represent the problem, when solving:</p> <ul style="list-style-type: none"> <li>• One-Step problems:               <ul style="list-style-type: none"> <li>○ Add to/Take from-Start Unknown</li> <li>○ Compare-Bigger Unknown</li> <li>○ Compare-Smaller Unknown</li> </ul> </li> <li>• Two-Step problems involving single digits:               <ul style="list-style-type: none"> <li>○ Add to/Take from- Change Unknown</li> <li>○ Add to/Take from- Result Unknown</li> </ul> </li> </ul>	<p><b>Unit 1, Module 1:</b> 1, 2, 3, 4, 5, 6, 7, 8, 12, 24, 26, 27, 28, 29  <b>Unit 1, Module 2:</b> 30, 32, 35, 36, 38, 40, 42, 43, 44, 48, 49, 51, 52, 53, 54  <b>Unit 1, Module 3:</b> 55, 58, 59, 61, 62, 63, 66, 67, 68, 71, 72, 73, 74, 75  <b>Unit 1, Module 4:</b> 76, 85, 86, 88, 89, 90, 93, 94, 95, 96, 97, 98, 100  <b>Unit 1, Module 5:</b> 101, 110, 111, 113, 114, 115, 118, 119, 120, 121, 122, 123  <b>Unit 1, Module 6:</b> 124, 128, 129, 132, 133, 135, 137, 139, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155  <b>Unit 2, Module 4:</b> 74, 77, 78, 79, 81, 82, 83, 84, 85, 89, 90, 91, 92, 93, 94, 95  <b>Unit 2, Module 5:</b> 96, 100, 101, 102, 104, 105, 113, 114, 115, 116, 117, 118, 119, 120  <b>Unit 2, Module 6:</b> 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 148, 149, 152, 153  <b>Unit 3, Module 1:</b> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30  <b>Unit 3, Module 2:</b> 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56  <b>Unit 3, Module 3:</b> 57, 62, 63, 64, 67, 68, 69, 70, 71, 72, 73, 77, 78, 79, 80, 81  <b>Unit 3, Module 4:</b> 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106  <b>Unit 3, Module 5:</b> 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124  <b>Unit 3, Module 6:</b> 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168</p>

<b>Add and subtract within 20.</b>	
<p>2. Demonstrate fluency with addition and subtraction, within 20, using mental strategies.</p>	<p><b>Unit 1, Module 1:</b> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29</p> <p><b>Unit 1, Module 2:</b> 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54</p> <p><b>Unit 1, Module 3:</b> 55, 56, 57, 58, 59, 60, 61, 62, 63, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75</p> <p><b>Unit 1, Module 4:</b> 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100</p> <p><b>Unit 1, Module 5:</b> 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123</p> <p><b>Unit 1, Module 6:</b> 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155</p> <p><b>Unit 2, Module 4:</b> 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95</p> <p><b>Unit 2, Module 5:</b> 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120</p> <p><b>Unit 2, Module 6:</b> 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 148, 149</p> <p><b>Unit 3, Module 1:</b> 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30</p> <p><b>Unit 3, Module 2:</b> 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56</p> <p><b>Unit 3, Module 3:</b> 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81</p> <p><b>Unit 3, Module 4:</b> 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106</p> <p><b>Unit 3, Module 6:</b> 161, 162, 163, 164, 165, 166, 167, 168</p>
<b>Work with equal groups.</b>	
<p>3. Determine whether a group of objects, within 20, has an odd or even number of members by:</p> <ul style="list-style-type: none"> <li>• Pairing objects, then counting them by 2s.</li> <li>• Determining whether objects can be placed into two equal groups.</li> <li>• Writing an equation to express an even number as a sum of two equal addends.</li> </ul>	<p><b>Unit 3, Module 1:</b> 4</p> <p><b>Unit 3, Module 5:</b> 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124</p> <p><b>Unit 3, Module 6:</b> 164, 168</p>

<p>4. Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.</p>	<p><b>Unit 3, Module 1:</b> 4  <b>Unit 3, Module 5:</b> 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124  <b>Unit 3, Module 6:</b> 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 164, 168</p>
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## NC.2.NBT Number and Operations in Base Ten

### Understand place value.

<p>1. Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones.</p> <ul style="list-style-type: none"> <li>• Unitize by making a hundred from a collection of ten tens.</li> <li>• Demonstrate that the numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds, with 0 tens and 0 ones.</li> <li>• Compose and decompose numbers using various groupings of hundreds, tens, and ones.</li> </ul>	<p><b>Unit 1, Module 1:</b> 1, 16, 17, 26, 27, 28  <b>Unit 1, Module 3:</b> 55, 56, 57, 58, 59, 60, 65, 66, 68, 69, 70, 75  <b>Unit 1, Module 4:</b> 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 93, 94, 95, 96, 97, 98, 99, 100  <b>Unit 1, Module 5:</b> 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123  <b>Unit 1, Module 6:</b> 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155  <b>Unit 2, Module 1:</b> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27  <b>Unit 2, Module 2:</b> 36, 40, 45, 46, 47, 48, 49  <b>Unit 2, Module 3:</b> 50, 73  <b>Unit 2, Module 4:</b> 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 91, 94  <b>Unit 2, Module 6:</b> 145, 146, 147, 148, 150, 151, 152  <b>Unit 3, Module 1:</b> 3  <b>Unit 3, Module 2:</b> 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56  <b>Unit 3, Module 3:</b> 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81  <b>Unit 3, Module 4:</b> 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106  <b>Unit 4, Module 5:</b> 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130</p>
<p>2. Count within 1000; skip-count by 5s, 10s, and 100s.</p>	<p><b>Unit 1, Module 1:</b> 10, 11  <b>Unit 2, Module 1:</b> 21, 23, 24, 25, 26, 27  <b>Unit 2, Module 2:</b> 28, 29, 30, 31, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49  <b>Unit 2, Module 3:</b> 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73  <b>Unit 2, Module 6:</b> 147, 151  <b>Unit 3, Module 1:</b> 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30  <b>Unit 3, Module 2:</b> 31</p>

	<p><b>Unit 3, Module 6:</b> 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168</p>
<p>3. Read and write numbers, within 1,000, using base-ten numerals, number names, and expanded form.</p>	<p><b>Unit 1, Module 1:</b> i, ii, iii, iv, v, vi, vii, viii, ix, x  <b>Unit 1, Module 1:</b> 4  <b>Unit 1, Module 2:</b> 40, 41, 46, 47  <b>Unit 1, Module 4:</b> 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 93, 94, 98, 99  <b>Unit 1, Module 5:</b> 101, 102, 103, 104, 105, 106, 107, 108, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123  <b>Unit 1, Module 6:</b> 124, 125, 126, 127, 128, 129, 131, 134, 135, 136, 138, 139, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155  <b>Unit 2, Module 1:</b> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27  <b>Unit 2, Module 2:</b> 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49  <b>Unit 2, Module 3:</b> 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73  <b>Unit 2, Module 4:</b> 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95  <b>Unit 2, Module 5:</b> 120  <b>Unit 2, Module 6:</b> 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153  <b>Unit 3, Module 1:</b> 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30  <b>Unit 3, Module 2:</b> 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56  <b>Unit 3, Module 3:</b> 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81  <b>Unit 3, Module 4:</b> 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106</p>
<p>4. Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using <math>&gt;</math>, <math>=</math>, and <math>&lt;</math> symbols to record the results of comparisons.</p>	<p><b>Unit 1, Module 1:</b> 1, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 21, 22, 23, 28, 29  <b>Unit 1, Module 2:</b> 30, 31, 33, 37, 38, 39, 40, 41, 43, 46, 47, 48, 50, 53, 54  <b>Unit 1, Module 3:</b> 55, 60, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75  <b>Unit 1, Module 4:</b> 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 93, 94, 95, 96, 97, 98, 99, 100  <b>Unit 1, Module 5:</b> 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123  <b>Unit 1, Module 6:</b> 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155  <b>Unit 2, Module 1:</b> 8, 9, 10, 11, 12, 16, 17, 20, 21, 22, 23, 24, 25, 26, 27  <b>Unit 2, Module 2:</b> 28, 32, 33, 35, 36, 37, 39, 40, 41, 43, 44, 45, 46, 47, 48, 49  <b>Unit 2, Module 3:</b> 50, 55, 57, 58, 59, 60, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73  <b>Unit 2, Module 4:</b> 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95</p>

	<p><b>Unit 2, Module 5:</b> 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120</p> <p><b>Unit 2, Module 6:</b> 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153</p> <p><b>Unit 3, Module 1:</b> 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30</p> <p><b>Unit 3, Module 2:</b> 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56</p> <p><b>Unit 3, Module 3:</b> 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81</p> <p><b>Unit 3, Module 4:</b> 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106</p> <p><b>Unit 3, Module 6:</b> 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168</p>
<b>Use place value understanding and properties of operations.</b>	
<p>5. Demonstrate fluency with addition and subtraction, within 100, by:</p> <ul style="list-style-type: none"> <li>Flexibly using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.</li> <li>Comparing addition and subtraction strategies, and explaining why they work.</li> <li>Selecting an appropriate strategy in order to efficiently compute sums and differences.</li> </ul>	<p><b>Unit 1, Module 1:</b> 1, 2, 3, 4, 10, 11, 12, 13, 14, 15, 16, 17, 18, 24, 25, 26, 27, 28</p> <p><b>Unit 1, Module 2:</b> 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54</p> <p><b>Unit 1, Module 3:</b> 55, 70, 71, 72, 73, 74, 75</p> <p><b>Unit 1, Module 4:</b> 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100</p> <p><b>Unit 1, Module 5:</b> 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123</p> <p><b>Unit 1, Module 6:</b> 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155</p> <p><b>Unit 2, Module 2:</b> 28, 32</p> <p><b>Unit 2, Module 4:</b> 74, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95</p> <p><b>Unit 2, Module 5:</b> 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120</p> <p><b>Unit 2, Module 6:</b> 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153</p> <p><b>Unit 3, Module 1:</b> 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30</p> <p><b>Unit 3, Module 2:</b> 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56</p> <p><b>Unit 3, Module 3:</b> 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81</p> <p><b>Unit 3, Module 4:</b> 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106</p>

	<p><b>Unit 3, Module 6:</b> 161, 162, 163, 164, 165, 166, 167, 168</p> <p><b>Unit 4, Module 5:</b> 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130</p>
6. Add up to four two-digit numbers using strategies based on place value and properties of operations.	<p><b>Unit 1, Module 3:</b> 64, 65, 66, 67, 68, 69, 75</p> <p><b>Unit 1, Module 4:</b> 76, 90, 92, 95, 96, 97, 100</p> <p><b>Unit 1, Module 6:</b> 124, 128, 129, 133, 134, 138, 139, 149, 153</p> <p><b>Unit 2, Module 4:</b> 74, 87, 88, 89, 90, 92, 94</p> <p><b>Unit 2, Module 6:</b> 121, 122, 127, 128, 129, 130</p> <p><b>Unit 3, Module 2:</b> 49, 50</p> <p><b>Unit 3, Module 4:</b> 93, 104</p> <p><b>Unit 3, Module 6:</b> 163, 164, 167, 168</p>
7. Add and subtract, within 1,000, relating the strategy to a written method, using: <ul style="list-style-type: none"> <li>Concrete models or drawings</li> <li>Strategies based on place value</li> <li>Properties of operations</li> <li>Relationship between addition and subtraction</li> </ul>	<p><b>Unit 1, Module 1:</b> 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29</p> <p><b>Unit 1, Module 2:</b> 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54</p> <p><b>Unit 1, Module 4:</b> 76, 77, 78, 79, 80, 81, 82, 83, 84, 90, 91</p> <p><b>Unit 1, Module 5:</b> 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123</p> <p><b>Unit 1, Module 6:</b> 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155</p> <p><b>Unit 2, Module 4:</b> 74, 75, 76, 95</p> <p><b>Unit 2, Module 5:</b> 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120</p> <p><b>Unit 2, Module 6:</b> 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145</p> <p><b>Unit 3, Module 1:</b> 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30</p> <p><b>Unit 3, Module 2:</b> 32, 33, 34, 35, 36, 37, 38, 39, 40</p> <p><b>Unit 3, Module 3:</b> 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81</p> <p><b>Unit 3, Module 4:</b> 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106</p> <p><b>Unit 3, Module 6:</b> 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168</p> <p><b>Unit 4, Module 5:</b> 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130</p>
8. Mentally add 10 or 100 to a given number 100–900, and mentally subtract 10 or 100 from a given number 100–900.	<p><b>Unit 2, Module 6:</b> 126, 127, 128, 131, 133, 134, 135, 137, 140, 144, 145, 148, 149, 151</p> <p><b>Unit 3, Module 1:</b> 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30</p> <p><b>Unit 3, Module 6:</b> 161, 162, 163, 165, 166, 167</p>

## NC.2.MD Measurement and Data

### Measure and estimate lengths.

1. Measure the length of an object in standard units by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.	<b>Unit 4, Module 1:</b> 3 <b>Unit 4, Module 4:</b> 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 100, 101, 102, 103, 104, 105, 106 <b>Unit 4, Module 5:</b> 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120 <b>Unit 4, Module 6:</b> 158, 162
2. Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to the size of the unit chosen.	<b>Unit 4, Module 4:</b> 87, 99
3. Estimate lengths using units of inches, feet, yards, centimeters, and meters.	<b>Unit 4, Module 1:</b> 3 <b>Unit 4, Module 4:</b> 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106 <b>Unit 4, Module 6:</b> 158, 162
4. Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit.	<b>Unit 4, Module 1:</b> 3 <b>Unit 4, Module 4:</b> 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 100, 101, 102, 103, 104, 105, 106 <b>Unit 4, Module 5:</b> 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120 <b>Unit 4, Module 6:</b> 158, 162

### Relate addition and subtraction to length.

5. Use addition and subtraction, within 100, to solve word problems involving lengths that are given in the same units, using equations with a symbol for the unknown number to represent the problem.	<b>Unit 4, Module 1:</b> 3 <b>Unit 4, Module 4:</b> 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 100, 101, 102, 103, 104, 105, 106 <b>Unit 4, Module 5:</b> 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120 <b>Unit 4, Module 6:</b> 158, 162
6. Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points and represent whole-number sums and differences, within 100, on a number line.	<b>Unit 4, Module 1:</b> 3 <b>Unit 4, Module 4:</b> 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 100, 101, 102, 103, 104, 105, 106 <b>Unit 4, Module 5:</b> 121, 122, 123, 124, 125, 126, 127, 128, 129, 130 <b>Unit 4, Module 6:</b> 158, 162

### Build understanding of time and money.

7. Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.	<b>Unit 4, Module 1:</b> 1, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31 <b>Unit 4, Module 6:</b> 156, 160
8. Solve word problems involving: <ul style="list-style-type: none"> <li>• Quarters, dimes, nickels, and pennies, within 99¢, using ¢ symbols appropriately.</li> <li>• Whole dollar amounts, using the \$ symbol appropriately.</li> </ul>	<b>Unit 4, Module 1:</b> 1 <b>Unit 4, Module 2:</b> 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56 <b>Unit 4, Module 6:</b> 156, 160



<b>Represent and interpret data.</b>	
<p>10. Organize, represent, and interpret data with up to four categories.</p> <ul style="list-style-type: none"> <li>• Draw a picture graph and a bar graph with a single-unit scale to represent a data set.</li> <li>• Solve simple put-together, take-apart, and compare problems using information presented in a picture and a bar graph.</li> </ul>	<p><b>Unit 4, Module 1:</b> 2  <b>Unit 4, Module 3:</b> 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 81  <b>Unit 4, Module 6:</b> 157, 161</p>
<b>NC.2.G Geometry</b>	
<b>Reason with shapes and their attributes.</b>	
<p>1. Recognize and draw triangles, quadrilaterals, pentagons, and hexagons, having specified attributes; recognize and describe attributes of rectangular prisms and cubes.</p>	<p><b>Unit 4, Module 1:</b> 4  <b>Unit 4, Module 6:</b> 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 154, 155, 159, 163</p>
<p>3. Partition circles and rectangles into two, three, or four equal shares.</p> <ul style="list-style-type: none"> <li>• Describe the shares using the words halves, thirds, half of, a third of, fourths, fourth of, quarter of.</li> <li>• Describe the whole as two halves, three thirds, four fourths.</li> <li>• Explain that equal shares of identical wholes need not have the same shape.</li> </ul>	<p><b>Unit 4, Module 1:</b> 4  <b>Unit 4, Module 6:</b> 131, 148, 149, 150, 151, 152, 153, 154, 155, 159, 163</p>