

**A Harcourt Achieve Standard Correlation of Saxon Math 3 © 2008
To the WKCE-CRT Mathematics Assessment Frameworks**

GRADE THREE			
GRADE 3 WKCE-CRT MATHEMATICS ASSESSMENT FRAMEWORKS	INSTRUCTION	MAINTENANCE	ASSESSMENT
MATHEMATICS			
Objective A: Mathematical Processes			
Students will effectively use mathematical knowledge, skills and strategies related to reasoning, communication, connections, representation and problem solving.			
Use reasoning and logic to: <ul style="list-style-type: none"> • Perceive patterns • Identify relationships • Formulate questions • Pose problems • Make conjectures • Justify strategies • Test reasonableness of results 	<u>New Concept</u> Lesson(s): 45-2, 52, 53, 96, 116, 117, 122, 128, 133, E	<u>The Meeting</u> Lesson(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10-1, 10-2, 11, 12, 13, 14, 15-1, 15-2, 16, 17, 18, 19, 20-1, 20-2, 21, 22, 23, 24, 25-1, 25-2, 26, 27, 28, 29, 30-1, 30-2, 31, 32, 33, 34, 35-1, 35-2, 36, 37, 38, 39, 40-1, 40-2, 41, 42, 43, 44, 45-1, 45-2, 46, 47, 48, 49, 50-1, 50-2, 51, 52, 53, 54, 55-1, 55-2, 56, 57, 58, 59, 60-1, 60-2, 61, 62, 63, 64, 65-1, 65-2, 66, 67, 68, 69, 70-1, 70-2, 71, 72, 73, 74, 75-1, 75-2, 76, 77, 78, 79, 80-1, 80-2, 81, 82, 83, 84, 85-1, 85-2, 86, 87, 88, 89, 90-1, 90-2, 91, 92, 93, 94, 95-1, 96, 97, 98, 99, 100-1, 100-2, 101, 102, 103, 104, 105-1, 105-2, 106, 107, 108, 109, 110-1, 110-2, 111, 112, 113, 114, 115-1, 115-2, 116, 117, 118, 119, 120-1, 120-2, 121, 122, 123, 124, 125-1, 125-2, 126, 127, 128, 129, 130-1, 130-2, 131, 132, 133, 134, 135 <u>Written Practice</u> Lesson(s): 2, 4, 6, 7, 8, 9, 11, 12, 18, 19, 22, 26, 32, 33, 34, 36, 47, 71, 92, 93, 98, 108, 117, 119, 122, 123, 126, 127	<u>Written Assessment</u> Lesson(s): 15-2, 20-2, 35-2, 45-2, 60-2, 75-2, 80-2, 95-2, 100-2, 125-2, 130-2
Communicate mathematical ideas and reasoning using the vocabulary of mathematics in a variety of ways e.g., using words, numbers, symbols, pictures, charts, tables, diagrams, graphs, and models.	<u>New Concept</u> Lesson(s): 11, 45-1, 47, 55-2, 80-2, 116, 122, 128, 133	<u>Written Practice</u> Lesson(s): 11, 22, 23, 24, 26, 29, 32, 33, 34, 36, 47, 77, 96, 99, 105-1, 108, 112	<u>Written Assessment</u> Lesson(s): 15-2, 20-2, 25-2, 75-2

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MATHEMATICS			
Objective A: Mathematical Processes			
Students will effectively use mathematical knowledge, skills and strategies related to reasoning, communication, connections, representation and problem solving.			
Connect mathematics to the real world, as well as within mathematics.	<u>New Concept</u> Lesson(s): 11, 22, 55-2	<u>The Meeting</u> Lesson(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10-1, 10-2, 11, 12, 13, 14, 15-1, 15-2, 16, 17, 18, 19, 20-1, 20-2, 21, 22, 23, 24, 25-1, 25-2, 26, 27, 28, 29, 30-1, 30-2, 31, 32, 33, 34, 35-1, 35-2, 36, 37, 38, 39, 40-1, 40-2, 41, 42, 43, 44, 45-1, 45-2, 46, 47, 48, 49, 50-1, 50-2, 51, 52, 53, 54, 55-1, 55-2, 56, 57, 58, 59, 60-1, 60-2, 61, 62, 63, 64, 65-1, 65-2, 66, 67, 68, 69, 70-1, 70-2, 71, 72, 73, 74, 75-1, 75-2, 76, 77, 78, 79, 80-1, 80-2, 81, 82, 83, 84, 85-1, 85-2, 86, 87, 88, 89, 90-1, 90-2, 91, 92, 93, 94, 95-1, 96, 97, 98, 99, 100-1, 100-2, 101, 102, 103, 104, 105-1, 105-2, 106, 107, 108, 109, 110-1, 110-2, 111, 112, 113, 114, 115-1, 115-2, 116, 117, 118, 119, 120-1, 120-2, 121, 122, 123, 124, 125-1, 125-2, 126, 127, 128, 129, 130-1, 130-2, 131, 132, 133, 134, 135 <u>Written Practice</u> Lesson(s): 14, 15-1, 16, 17, 19, 21, 22, 23, 24, 26, 27, 29, 32, 33, 34, 36, 47, 49, 78, 92, 93, 94, 105-1 <u>Math Center Activities</u> Lesson(s): 102	<u>Written Assessment</u> Lesson(s): 20-2, 25-2, 35-2, 75-2, 80-2, 85-2, 90-2, 95-2, 100-2, 105-2, 110-2, 115-2, 120-2, 125-2, 130-2, 135
Create and use representations to organize, record, and communicate mathematical ideas.	<u>New Concept</u> Lesson(s): 55-2, 80-2	<u>Written Practice</u> Lesson(s): 22, 23, 33, 34, 36, 47, 99	<u>Written Assessment</u> Lesson(s): 35-2, 90-2
Solve and analyze routine and non-routine problems.	<u>New Concept</u> Lesson(s): 45-2, 47, 95-2, 123, 128, 133, D	<u>Written Practice</u> Lesson(s): 22, 23, 27, 29, 32, 33, 34, 36, 47, 71, 78, 81, 84, 105-1, 108, 117, 127, 128	<u>Written Assessment</u> Lesson(s): 15-2, 20-2, 55-2, 75-2, 80-2, 135

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MATHEMATICS			
Objective B: Number Operations and Relationships			
Subskill B.a.: Concepts			
Recognize and apply place-value concepts to whole numbers less than 1,000	<u>New Concept</u> Lesson(s): 3, 22, 27, 41, 55-2, 64, 103, 123, 134	<u>Written Practice</u> Lesson(s): 5, 6, 7, 34, 41, 42, 44, 45-1, 46, 47, 51, 52, 53, 55-1, 57, 62, 95-1, 106, 108, 112, 114, 118 <u>Math Center Activities</u> Lesson(s): 3, 22, 41, 103	<u>Written Assessment</u> Lesson(s): 45-2, 50-2, 55-2, 60-2, 80-2, 110-2, 115-2, 120-2
Read, write, and represent numbers using words, numerals, pictures (e.g. base-ten blocks), number lines, , arrays, expanded forms ($24=20+4$) and symbolic renaming e.g., $24=30-6$.	<u>New Concept</u> Lesson(s): 3, 22, 27, 34, 41, 51, 64, 68, 75-2, 78, 103, 104, 106	<u>The Meeting</u> Lesson(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10-1, 10-2, 11, 12, 13, 14, 15-1, 15-2, 16, 17, 18, 19, 20-1, 20-2, 21, 22, 23, 24, 25-1, 25-2, 26, 27, 28, 29, 30-1, 30-2, 31, 32, 33, 34, 35-1, 35-2, 36, 37, 38, 39, 40-1, 40-2, 41, 42, 43, 44, 45-1, 45-2, 46, 47, 48, 49, 50-1, 50-2, 51, 52, 53, 54, 55-1, 55-2, 56, 57, 58, 59, 60-1, 60-2, 61, 62, 63, 64, 65-1, 65-2, 66, 67, 68, 69, 70-1, 70-2, 71, 72, 73, 74, 75-1, 75-2, 76, 77, 78, 79, 80-1, 80-2, 81, 82, 83, 84, 85-1, 85-2, 86, 87, 88, 89, 90-1, 90-2, 91, 92, 93, 94, 95-1, 96, 97, 98, 99, 100-1, 100-2, 101, 102, 103, 104, 105-1, 105-2, 106, 107, 108, 109, 110-1, 110-2, 111, 112, 113, 114, 115-1, 115-2, 116, 117, 118, 119, 120-1, 120-2, 121, 122, 123, 124, 125-1, 125-2, 126, 127, 128, 129, 130-1, 130-2, 131, 132, 133, 134, 135 <u>Written Practice</u> Lesson(s): 3, 5, 6, 7, 27, 28, 34, 35-1, 36, 39, 45-1, 46, 47, 51, 53, 55-1, 57, 59, 61, 64, 67, 68, 69, 71, 72, 73, 75-1, 77, 78, 82, 83, 85-1, 92, 98, 103, 104, 105-1, 106, 107, 109, 112, 115-1, 122, 123, 124, 125-1, 126, 129 <u>Math Center Activities</u> Lesson(s): 3, 27, 41, 54, 64, 78	<u>Written Assessment</u> Lesson(s): 10-2, 40-2, 60-2, 65-2, 75-2, 85-2, 100-2, 115-2, 120-2, 130-2, 135

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MATHEMATICS			
Objective B: Number Operations and Relationships			
Subskill B.a.: Concepts			
Compare and order whole numbers less than 1,000	<u>New Concept</u> Lesson(s): 8, 34, 77, 130-2	<u>Written Practice</u> Lesson(s): 8, 9, 11, 13, 14, 16, 19, 24, 34, 37, 38, 41, 43, 44, 51, 52, 53, 55-1, 57, 61, 126, 133, 134, 135 <u>Math Center Activities</u> Lesson(s): 8, 27, 34, 47	<u>Written Assessment</u> Lesson(s): 15-2, 20-2, 40-2, 45-2, 85-2
Count by 2s, 3s, 5s, 10s, 25s and 100s	<u>New Concept</u> Lesson(s): 20-1, 30-1, 35-1	<u>Written Practice</u> Lesson(s): 2, 8, 9, 22, 26, 34, 41, 56, 78	<u>Oral Assessment</u> Lesson(s): 20-2, 80-2, 110-2 <u>Written Assessment</u> Lesson(s): 15-2, 20-2, 75-2
Count, compare and make change using a collection of coins (up to one dollar) and one-dollar bills.	<u>New Concept</u> Lesson(s): 13, 22, 23, 36, 79, 82, 96, 102	<u>The Meeting</u> Lesson(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10-1, 10-2, 11, 12, 13, 14, 15-1, 15-2, 16, 17, 18, 19, 20-1, 20-2, 21, 22, 23, 24, 25-1, 25-2, 26, 27, 28, 29, 30-1, 30-2, 31, 32, 33, 34, 35-1, 35-2, 36, 37, 38, 39, 40-1, 40-2, 41, 42, 43, 44, 45-1, 45-2, 46, 47, 48, 49, 50-1, 50-2, 51, 52, 53, 54, 55-1, 55-2, 56, 57, 58, 59, 60-1, 60-2, 61, 62, 63, 64, 65-1, 65-2, 66, 67, 68, 69, 70-1, 70-2, 71, 72, 73, 74, 75-1, 75-2, 76, 77, 78, 79, 80-1, 80-2, 81, 82, 83, 84, 85-1, 85-2, 86, 87, 88, 89, 90-1, 90-2, 91, 92, 93, 94, 95-1, 96, 97, 98, 99, 100-1, 100-2, 101, 102, 103, 104, 105-1, 105-2, 106, 107, 108, 109, 110-1, 110-2, 111, 112, 113, 114, 115-1, 115-2, 116, 117, 118, 119, 120-1, 120-2, 121, 122, 123, 124, 125-1, 125-2, 126, 127, 128, 129, 130-1, 130-2, 131, 132, 133, 134, 135 <u>Written Practice</u> Lesson(s): 13, 15-1, 16, 17, 18, 21, 22, 23, 24, 25-1, 26, 27, 28, 29, 31, 33, 34, 35-1, 36, 37, 39, 41, 42, 43, 49, 53, 57, 64, 65-1, 67, 68, 69, 71, 78, 79, 82, 85-1, 86, 101, 102, 104, 105-1, 107, 109, 115-1, 117, 127, 128, 129, 132, 135 <u>Math Center Activities</u> Lesson(s): 23, 36, 102	<u>Oral Assessment</u> Lesson(s): 60-2 <u>Written Assessment</u> Lesson(s): 20-2, 25-2, 30-2, 35-2, 45-2, 50-2, 60-2, 70-2, 80-2, 90-2, 95-2, 115-2, 120-2,

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MATHEMATICS			
Objective B: Number Operations and Relationships			
Subskill B.a.: Concepts			
Identify a fractional part of a collection/set.	<u>New Concept</u> Lesson(s): 36, 37, 61, 111	<u>Written Practice</u> Lesson(s): 26, 28, 32, 41, 42, 43, 61, 62, 65-1, 66, 67, 69, 72, 73, 91, 96, 102, 111, 112, 113, 114, 116, 118, 119 <u>Math Center Activities</u> Lesson(s): 61, 111	<u>Written Assessment</u> Lesson(s): 45-2, 70-2, 120-2
Read, write and represent fractional parts of a whole e.g., 1/4, 1/2.	<u>New Concept</u> Lesson(s): 12, 17, 21, 24, 25-2, 60-2, 74	<u>Written Practice</u> Lesson(s): 12, 15-1, 17, 18, 21, 22, 23, 24, 25-1, 27, 29, 31, 32, 35-1, 36, 37, 38, 54, 63, 66, 68, 71, 74, 77, 94, 95-1, 98, 99, 101, 108, 116, 131, 132 <u>Math Center Activities</u> Lesson(s): 24	<u>Oral Assessment</u> Lesson(s): 40-2 <u>Written Assessment</u> Lesson(s): 25-2, 30-2, 35-2, 40-2, 75-2, 80-2, 95-2, 100-2, 110-2, 115-2, 130-2
Subskill B.b.: Computation			
Use addition and subtraction in everyday situations and solve one-step word problems.	<u>New Concept</u> Lesson(s): 11, 35-2, 66, 96	<u>Written Practice</u> Lesson(s): 5, 11, 12, 15-1, 16, 17, 19, 21, 22, 23, 31, 33, 36, 38, 39, 43, 44, 46, 52, 53, 54, 56, 59, 61, 65-1, 67, 74, 76, 79, 82, 83, 85-1, 86, 87, 88, 89, 92, 93, 94, 95-1, 99, 101, 102, 103, 106 <u>Math Center Activities</u> Lesson(s): 35-2, 66	<u>Oral Assessment</u> Lesson(s): 20-2 <u>Written Assessment</u> Lesson(s): 20-2, 25-2, 30-2, 35-2, 40-2, 45-2, 50-2, 55-2, 60-2, 65-2, 70-2, 75-2, 80-2, 85-2, 90-2, 95-2, 100-2, 105-2, 110-2, 115-2, 120-2, 135
Solve single and double-digit addition and subtraction problems with regrouping including horizontal format in problems with and without context.	<u>New Concept</u> Lesson(s): 5, 10-1, 11, 14, 15-1, 25-1, 31, 33, 35-1, 38, 40-1, 42, 52, 53, 60-1, 62, 65-1, 66, 67, 69, 76, 80-1, 82, 86, 89, 91, 92, 96, 126, 128, 133	<u>The Meeting</u> Lesson(s): 12, 15-1, 16, 17, 19, 21, 23, 24, 28, 29, 31, 32, 33, 34, 35-1, 36, 38, 39, 41, 43, 44, 45-1, 46, 47, 48, 51, 52, 53, 54, 56, 59, 61, 64, 65-1, 65-2, 67 <u>Fact Practice</u> Lesson(s): 6, 7, 8, 9, 11, 12, 13, 17, 18, 19, 21, 22, 23, 24, 26, 27, 31, 32, 33, 34, 36, 37, 38, 39, 41, 44, 46, 48, 51, 52, 53, 54, 61, 62, 66, 67, 68, 69, 76, 77, 78, 79, 81, 84	<u>Fact Assessment</u> Lesson(s): 10-1, 15-1, 20-1, 25-1, 30-1, 35-1, 40-1, 45-1, 50-1, 55-1, 55-2, 60-2, 65-1, 65-2, 70-1, 70-2, 75-2, 80-1, 80-2, 85-1, 85-2, 90-2, 95-2, 100-2, 110-2 <u>Oral Assessment</u> Lesson(s): 20-2, 90-2, 120-2 <u>Written Assessment</u> Lesson(s): 20-2, 25-2, 30-2, 35-2, 45-2, 50-2, 55-2, 60-2, 65-2, 70-2, 80-2, 90-2, 95-2, 100-2, 105-2, 115-2, 120-2, 125-2, 135

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MATHEMATICS			
Objective B: Number Operations and Relationships			
Subskill B.b.: Computation			
<p><i>Continued</i> Solve single and double-digit addition and subtraction problems with regrouping including horizontal format in problems with and without context.</p>		<p><u>Written Practice</u> Lesson(s): 9, 11, 12, 14, 15-1, 16, 17, 18, 19, 21, 22, 23, 24, 25-1, 27, 29, 31, 33, 35-1, 36, 37, 38, 39, 42, 43, 44, 45-1, 46, 47, 48, 49, 52, 53, 54, 56, 57, 58, 59, 61, 62, 65-1, 66, 67, 71, 72, 73, 74, 76, 79, 81, 82, 83, 84, 85-1, 86, 87, 88, 89, 91, 92, 93, 94, 95-1, 96, 97, 98, 99, 101, 102, 103, 104, 105-1, 106, 108, 113, 114, 116, 119, 122, 123, 125-1, 133, 135 <u>Math Center Activities</u> Lesson(s): 14, 35-2, 44, 53, 66, 67, 76, 96</p>	
<p>Demonstrate the concept of multiplication as grouping or repeated addition in context with products up to 50.</p>	<p><u>New Concept</u> Lesson(s): 45-1, 55-1, 56, 57, 63, 70-1, 85-1, 87, 95-1, 100-1, 109, 110-1, 112, 115-1, 116, 120-1, 120-2, 126, 133</p>	<p><u>Fact Practice</u> Lesson(s): 47, 49, 56, 57, 58, 59, 71, 72, 73, 74, 86, 87, 88, 89, 94, 95, 98, 99, 101, 102, 103, 104, 111, 112, 113, 114, 116, 117, 118, 119, 121, 122, 123, 124, 131, 132, 133, 134 <u>Written Practice</u> Lesson(s): 56, 57, 58, 59, 62, 63, 64, 65-1, 66, 68, 71, 72, 77, 81, 87, 88, 89, 91, 93, 94, 95-1, 97, 99, 103, 104, 107, 108, 109, 111, 112, 113, 116, 119, 121, 122, 125-1, 126, 129, 131, 132, 133 <u>Math Center Activities</u> Lesson(s): 45-1, 55-1, 70-1, 85-1, 87, 95-1, 100-1, 105-1, 115-1, 116, 120-1</p>	<p><u>Fact Assessment</u> Lesson(s): 60-1, 75-1, 90-1, 100-1, 105-1, 105-2, 115-1, 115-2, 120-1, 120-2, 125-1, 125-2, 130-2, 135 <u>Oral Assessment</u> Lesson(s): 60-2 <u>Written Assessment</u> Lesson(s): 50-2, 65-2, 70-2, 75-2, 95-2, 110-2, 115-2, 120-2, 130-2, 135</p>
<p>Demonstrate understanding of the concept of division as repeated subtraction, partitioning/sharing or measuring (dividend up to 30 and divisors up to 5).</p>	<p><u>New Concept</u> Lesson(s): 59, 90-1, 105-1, 107, 122, 124, 125-1, 132, 133</p>	<p><u>Fact Practice</u> Lesson(s): 91, 92, 93, 94, 106, 107, 108, 109, 126, 127, 128, 129 <u>Written Practice</u> Lesson(s): 59, 63, 66, 68, 88, 107, 109, 111, 112, 115-1, 118, 121, 126, 128, 132, 133</p>	<p><u>Fact Assessment</u> Lesson(s): 95-1, 110-1, 130-1 <u>Oral Assessment</u> Lesson(s): 130-2 <u>Written Assessment</u> Lesson(s): 70-2, 120-2, 125-2, 135</p>

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MATHEMATICS			
Objective B: Number Operations and Relationships			
Subskill B.b.: Computation			
<i>Continued</i> Demonstrate understanding of the concept of division as repeated subtraction, partitioning/sharing or measuring (dividend up to 30 and divisors up to 5).		Math Center Activities Lesson(s): 105-1, 110-1, 124	
Use fractions to represent quantities when solving problems involving equal sharing or partitioning.	<i>There is an opportunity to introduce during:</i> New Concept Lesson(s): 91, 111, 112, 113, 116, 118, 119	Written Practice Lesson(s): 91, 111, 112, 113, 116, 118, 119	Written Assessment Lesson(s): 45-2, 120-2
Represent with shaded circles, rods, squares, pictorial representations of a whole.	New Concept Lesson(s): 61, 98	Written Practice Lesson(s): 17, 21, 22, 23, 24, 25-1, 26, 27, 28, 29, 31, 32, 35-1, 36, 37, 38, 41, 54, 61, 62, 63, 65-1, 71, 73, 74, 98, 99, 101, 102, 108, 111, 112, 113, 114, 116, 119, 122, 126, 131, 132 Math Center Activities Lesson(s): 74	Written Assessment Lesson(s): 25-2, 40-2, 75-2, 80-2, 100-2, 110-2, 115-2, 120-2
Estimate sums to tens and hundreds and differences to ten.	New Concept Lesson(s): 31, 62, 72	Written Practice Lesson(s): 31, 33, 35-1, 36, 57, 59, 61, 62, 65-1, 75-1, 78, 86, 89, 96, 97, 101, 102, 128 Math Center Activities Lesson(s): 31, 72	Written Assessment Lesson(s): 40-2, 65-2, 90-2, 105-2
Determine reasonableness of answers.	New Concept Lesson(s): 52, 53	Written Practice Lesson(s): 91, 92, 102, 121	Written Assessment Lesson(s): 95-2
Objective C: Geometry			
Subskill C.a.: Describing figures			
Identify, describe, and compare properties of 2 and 3 dimensional figures such as squares, triangles, rectangles, circles, pattern block shapes, cubes, pyramids, rectangular prisms, cylinders, and spheres (e.g., comparing sides, faces, corners, and edges).	New Concept Lesson(s): 7, 15-2, 20-2, 43, 74, 81, 100-2, 113, 115-2, 121	Written Practice Lesson(s): 23, 25-1, 28, 34, 35-1, 43, 45-1, 58, 117, 122, 125-1, 133 Math Center Activities Lesson(s): 20-2, 115-2	Written Assessment Lesson(s): 30-2, 35-2, 125-2

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MATHEMATICS			
Objective C: Geometry			
Subskill C.b.: Spatial relationships and transformations			
Identify 2-dimensional geometric shapes created by combining or decomposing other shapes e.g., square/triangles; trapezoid/rhombus, triangle; hexagon/triangles, rhombus, trapezoid.	<u>New Concept</u> Lesson(s): 10-2, 15-2, 50-2, 115-2	<u>Written Practice</u> Lesson(s): 133 <u>Math Center Activities</u> Lesson(s): 15-2, 50-2, 88	<i>There is an opportunity to assess by teacher questioning and observation after:</i> <u>New Concept</u> Lesson(s): 10-2, 15-2, 50-2, 88, 115-2, 133
Apply concepts of single-motion geometry (e.g., slides, flips and turns) to match two identical shapes.	<u>New Concept</u> Lesson(s): 110-2	<u>Written Practice</u> Lesson(s): 12, 114, 117, 118, 127	<u>Written Assessment</u> Lesson(s): 120-2
Subskill C.c.: Coordinate systems			
Use simple 2-dimensional coordinate systems to find locations on maps and to represent points and simple figures with coordinates of letters and numbers, (e.g., (E, 3)).	<u>New Concept</u> Lesson(s): 129, 130-1	<u>The Meeting</u> Lesson(s): 102, 112, 113, 114, 115-1, 115-2, 116, 117 <u>Written Practice</u> Lesson(s): 132, 133 <u>Math Center Activities</u> Lesson(s): 129	<u>Written Assessment</u> Lesson(s): 135
Objective D: Measurement			
Subskill D.a.: Measurable attributes			
Describe attributes of length, time and temperature and identify appropriate units to measure them. Units include: inches, feet, yards, centimeters, meters, seconds, minutes, hours, days, months, years and degrees Fahrenheit/Celsius.	<u>New Concept</u> Lesson(s): 6, 7, 18, 29, 32, 39, 46, 71, 84, 85-2	<u>The Meeting</u> Lesson(s): 2, 3, 4, 5, 6, 7, 8, 9, 10-2, 11, 12, 13, 14, 15-1, 15-2, 17, 18, 19, 20-1, 20-2, 21, 22, 23, 24, 25-1, 25-2, 26, 27, 28, 29, 30-1, 30-2, 31, 32, 33, 34, 35-1, 35-2, 36, 37, 38, 39, 40-1, 41, 42, 43, 44, 45-1, 45-2, 46, 47, 48, 49, 50-1, 50-2, 51, 52, 53, 54, 55-1, 55-2, 56, 57, 58, 59, 60-1, 60-2, 61, 62, 63, 64, 65-1, 65-2, 66, 67, 68, 69, 70-1, 71, 72, 73, 74, 75-1, 75-2, 76, 77, 78, 79, 80-1, 80-2, 81, 82, 83, 84, 85-1, 85-2, 86, 87, 88, 89, 90-1, 90-2, 91, 92, 93, 94, 95-1, 96, 97, 98, 99, 100-110-2, 101, 102, 103, 104, 105-1, 105-2, 106, 107, 108, 109, 110-1, 110-2, 111, 112, 113, 114, 115-1, 115-2, 116, 117, 118, 119, 120-1, 120-2, 121, 122, 123, 124, 125-1, 125-2, 126, 127, 128, 129, 130-1, 130-2, 131, 132, 133, 134, 135	<u>Oral Assessment</u> Lesson(s): 10-2 <u>Written Assessment</u> Lesson(s): 10-2, 15-2, 25-2, 40-2, 50-2, 55-2, 60-2, 75-2, 105-2, 110-2, 130-2

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GRADE THREE			
GRADE 3 WKCE-CRT MATHEMATICS ASSESSMENT FRAMEWORKS	INSTRUCTION	MAINTENANCE	ASSESSMENT
MATHEMATICS			
Objective D: Measurement			
Subskill D.a.: Measurable attributes			
<p><i>Continued</i> Describe attributes of length, time and temperature and identify appropriate units to measure them. Units include: inches, feet, yards, centimeters, meters, seconds, minutes, hours, days, months, years and degrees Fahrenheit/Celsius.</p>		<p>Written Practice Lesson(s): 2, 3, 4, 6, 7, 8, 9, 11, 12, 13, 14, 17, 18, 21, 23, 24, 25-1, 26, 28, 29, 32, 33, 34, 35-1, 39, 42, 43, 44, 45-1, 46, 47, 48, 49, 51, 52, 55-1, 65-1, 71, 73, 75-1, 76, 82, 83, 84, 87, 88, 91, 97, 98, 101, 106, 109, 118, 124, 127, 128, 129</p> <p>Math Center Activities Lesson(s): 1, 39</p>	
Compare attributes of length and weight by observation or when given actual measurements.	<p>New Concept Lesson(s): 85-2</p>	<p>Written Practice Lesson(s): 102, 108, 113, 116</p> <p>Math Center Activities Lesson(s): 32, 85-2</p>	<p><i>There is an opportunity to assess by teacher questioning and observation after:</i></p> <p>New Concept Lesson(s): 32, 85-2, 102, 108, 113, 116</p>
Subskill D.b.: Direct measurement			
Read and interpret measuring instruments to determine the measurement of objects with non-standard and standard units to the nearest centimeter or 1/2-inch.	<p>New Concept Lesson(s): 6, 7, 32, 49, 50-2, 54, 99, 114, 119</p>	<p>Written Practice Lesson(s): 6, 7, 8, 9, 11, 12, 14, 43, 45-1, 48, 49, 51, 52, 55-1, 65-1, 73, 85-1, 89, 91, 114, 115-1, 134</p> <p>Math Center Activities Lesson(s): 49</p>	<p>Written Assessment Lesson(s): 10-2, 15-2, 25-2, 40-2, 50-2, 55-2, 60-2, 75-2, 105-2, 110-2, 130-2</p>
Read thermometers to the nearest 5 degrees F/C.	<p>New Concept Lesson(s): 18, 29, 46, 83</p>	<p>The Meeting Lesson(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10-2, 11, 12, 13, 14, 15-1, 15-2, 18, 19, 20-1, 20-2, 21, 22, 23, 24, 25-2, 26, 27, 28, 29, 30-1, 30-2, 33, 34, 35-1, 35-2, 36, 37, 38, 39, 40-2, 41, 42, 43, 44, 45-1, 45-2, 48, 49, 50-1, 50-2, 51, 52, 53, 54, 55-2, 56, 57, 58, 59, 60-1, 60-2, 63, 64, 65-1, 65-2, 66, 67, 68, 69, 70-2, 71, 72, 73, 74, 75-1, 75-2, 78, 79, 80-1, 80-2, 81, 82, 83, 84, 85-1, 85-2, 86, 87, 88, 89, 90-190-2, 91, 92, 93, 94, 95-1, 96, 97, 98, 99, 100-1, 100-2, 101, 102, 103, 104, 105-1, 105-2, 106, 107, 108, 109</p>	<p>Written Assessment Lesson(s): 25-2, 35-2, 55-2, 60-2, 95-2</p>

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GRADE THREE			
GRADE 3 WKCE-CRT MATHEMATICS ASSESSMENT FRAMEWORKS	INSTRUCTION	MAINTENANCE	ASSESSMENT
MATHEMATICS			
Objective D: Measurement			
Subskill D.b.: Direct measurement			
<p><i>Continued</i> Read thermometers to the nearest 5 degrees F/C.</p>		<p><u>The Meeting</u> Lesson(s): 110-1, 110-2, 111, 112, 113, 114, 115-1, 115-2, 116, 117, 118, 119, 120-1, 120-2, 121, 122, 123, 124, 125-1, 125-2, 126, 127, 128, 129, 130-1, 130-2, 131, 132, 133, 134, 135</p> <p><u>Written Practice</u> Lesson(s): 18, 19, 21, 23, 25-1, 29, 32, 33, 35-1, 46, 47, 48, 51, 52, 58, 83, 84, 87, 88, 91, 94</p> <p><u>Math Center Activities</u> Lesson(s): 83</p>	
<p>Tell time to the nearest minute using analog and digital clocks; translate time from analog to digital clocks and vice versa.</p>	<p><u>New Concept</u> Lesson(s): 1, 4, 39, 65-2, 71, 97</p>	<p><u>The Meeting</u> Lesson(s): 2, 3, 4, 5, 6, 7, 8, 9, 10-1, 10-2, 11, 12, 13, 14, 15-1, 15-2, 16, 17, 18, 19, 20-1, 20-2, 21, 22, 23, 24, 25-1, 25-2, 26, 27, 28, 29, 30-1, 30-2, 31, 32, 33, 34, 35-1, 35-2, 36, 37, 38, 39, 40-1, 40-2, 41, 42, 43, 44, 45-1, 45-2, 46, 47, 48, 49, 50-1, 50-2, 51, 52, 53, 54, 55-1, 55-2, 56, 57, 58, 59, 60-1, 60-2, 61, 62, 63, 64, 65-1, 65-2, 66, 67, 68, 69, 70-1, 70-2, 71, 72, 73, 74, 75-1, 75-2, 76, 77, 78, 79, 80-1, 80-2, 81, 82, 83, 84, 85-1, 85-2, 86, 87, 88, 89, 90-1, 90-2, 91, 92, 93, 94, 95-1, 96, 97, 98, 99, 100-1, 100-2, 101, 102, 103, 104, 105-1, 105-2, 106, 107, 108, 109, 110-1, 110-2, 111, 112, 113, 114, 115-1, 115-2, 116, 117, 118, 119, 120-1, 120-2, 121, 122, 123, 124, 125-1, 125-2, 126, 127, 128, 129, 130-1, 130-2, 131, 132, 133, 134, 135</p> <p><u>Written Practice</u> Lesson(s): 2, 3, 4, 6, 8, 11, 14, 19, 29, 34, 39, 42, 44, 45-1, 46, 48, 58, 62, 63, 71, 73, 75-1, 76, 78, 101, 97, 98, 101, 106, 109, 115-1, 127, 128, 129</p>	<p><u>Oral Assessment</u> Lesson(s): 50-2</p> <p><u>Written Assessment</u> Lesson(s): 10-2, 15-2, 20-2, 35-2, 50-2, 55-2, 60-2, 65-2, 80-2, 90-2, 110-2, 130-2</p>

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GRADE THREE			
GRADE 3 WKCE-CRT MATHEMATICS ASSESSMENT FRAMEWORKS	INSTRUCTION	MAINTENANCE	ASSESSMENT
MATHEMATICS			
Objective D: Measurement			
Subskill D.b.: Direct measurement			
Tell time to the nearest minute using analog and digital clocks; translate time from analog to digital clocks and vice versa.		<u>Math Center Activities</u> Lesson(s): 39, 84, 97	
Investigate measurements of area.	<u>New Concept</u> Lesson(s): 63, 81, 88	<u>The Meeting</u> Lesson(s): 35-2, 45-2, 55-2 <u>Written Practice</u> Lesson(s): 39, 42, 89, 92, 93, 97 <u>Math Center Activities</u> Lesson(s): 88	<u>Written Assessment</u> Lesson(s): 100-2
Subskill D.c.: Indirect measurement			
Apply estimation techniques using non-standard units.	<u>New Concept</u> Lesson(s): 49	<u>Math Center Activities</u> Lesson(s): 32	<i>There is an opportunity to assess by teacher questioning and observation after:</i> <u>New Concept</u> Lesson(s): 32, 49
Objective E: Statistics and Probability			
Subskill E.a.: Data analysis and statistics			
Answer and pose questions about collecting, organizing and displaying data. Work with data in the context of real-world situations by determining what data to collect and when and how to collect it to answer questions.	<u>New Concept</u> Lesson(s): 40-2, 50-2, 70-2, 80-2, 135, A	<u>Written Practice</u> Lesson(s): 13, 19, 24, 36, 47, 54, 56, 59, 63, 64, 74, 75-1, 79, 81, 96, 112 <u>Math Center Activities</u> Lesson(s): 2, 30-2, 40-2, 55-2	<u>Written Assessment</u> Lesson(s): 10-2, 15-2, 40-2, 60-2, 65-2, 85-2, 90-2, 105-2, 115-2, 125-2
Collect, organize and display data in simple bar graphs and charts including translating data from one form to the other.	<u>New Concept</u> Lesson(s): 2, 30-2, 40-2, 70-2, A	<u>Written Practice</u> Lesson(s): 3, 4, 5, 13, 14, 24, 33, 36, 37, 54, 56, 59, 63, 64, 74, 79, 81, 96, 112 <u>Math Center Activities</u> Lesson(s): 2, 30-2, 40-2, 55-2	<u>Written Assessment</u> Lesson(s): 10-2, 15-2, 40-2, 60-2, 65-2, 85-2, 90-2, 105-2, 115-2, 125-2
Draw reasonable conclusions based on simple interpretations of data.	<u>New Concept</u> Lesson(s): 70-2, 125-2	<u>Written Practice</u> Lesson(s): 3, 4, 5, 13, 14, 15-1, 19, 37, 45-1, 47, 49, 54, 59, 63, 64, 75-1, 77, 99, 103, 105-1 <u>Math Center Activities</u> Lesson(s): 53, 80-2	<u>Written Assessment</u> Lesson(s): 10-2, 15-2, 30-2, 40-2, 50-2, 60-2, 65-2, 80-2, 90-2, 105-2, 115-2, 125-2, 135

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GRADE THREE			
GRADE 3 WKCE-CRT MATHEMATICS ASSESSMENT FRAMEWORKS	INSTRUCTION	MAINTENANCE	ASSESSMENT
MATHEMATICS			
Objective E: Statistics and Probability			
Subskill E.a.: Data analysis and statistics			
Read, use information and draw reasonable conclusions from data in graphs, tables, charts and Venn diagrams.	<u>New Concept</u> Lesson(s): 2, 40-2, 70-2, 125-2, A	<u>Written Practice</u> Lesson(s): 3, 4, 5, 13, 14, 15-1, 19, 36, 37, 45-1, 47, 49, 59, 63, 64, 74, 75-1, 77, 99, 103, 105-1, 122, 123 <u>Math Center Activities</u> Lesson(s): 9, 53, 80-2	<u>Written Assessment</u> Lesson(s): 10-2, 15-2, 20-2, 30-2, 40-2, 50-2, 60-2, 65-2, 80-2, 90-2, 105-2, 115-2, 125-2, 135
Subskill E.b.: Probability			
Determine if the occurrence of future events are more, less or equally likely to occur.	<u>New Concept</u> Lesson(s):90-2, C	<u>Written Practice</u> Lesson(s): 93, 94, 95-1, 99, 107 <u>Math Center Activities</u> Lesson(s):90-2	<u>Written Assessment</u> Lesson(s):100-2, 110-2
Choose a fair and an unfair spinner.	<u>New Concept</u> Lesson(s): 90-2	<u>Written Practice</u> Lesson(s): 97	<i>There is an opportunity to assess by teacher questioning and observation after:</i> <u>New Concept</u> Lesson(s): 90-2, 97
Objective F : Algebraic Relationships			
Subskill F.a.: Patterns, relations and functions			
Recognize, extend, describe, create and replicate a variety of patterns including attribute, number and geometric patterns. <ul style="list-style-type: none"> • Picture patterns • Patterns in tables and charts • “What’s-my-rule?” patterns • Patterns using addition and subtraction rules. 	<u>New Concept</u> Lesson(s): 117	<u>The Meeting</u> Lesson(s): 8, 9, 10-1, 10-2, 11, 12, 13, 14, 15-1, 15-2, 16, 17, 18, 19, 20-1, 20-2, 21, 22, 23, 24, 25-1, 25-2, 26, 27, 28, 29, 30-1, 30-2, 31, 32, 33, 34, 35-1, 35-2, 36, 37, 38, 39, 40-1, 40-2, 41, 42, 43, 44, 45-1, 45-2, 46, 47, 48, 49, 50-1, 50-2, 51, 52, 53, 54, 55-1, 55-2, 56, 57, 58, 59, 60-1, 60-2, 61, 62, 63, 64, 65-1, 65-2, 66, 67, 68, 69, 70-1, 70-2, 71, 72, 73, 74, 75-1, 75-2, 76, 77, 78, 79, 80-1, 80-2, 81, 82, 83, 84, 85-1, 85-2, 86, 87, 88, 89, 90-1, 90-2, 91, 92, 93, 94, 95-1, 96, 97, 98, 99, 100-1, 100-2, 101, 102, 103, 104, 105-1, 105-2, 106, 107, 108, 109, 110-1, 110-2, 111, 112, 113, 114, 115-1, 115-2, 116, 117, 118, 119, 120-1, 120-2, 121, 122, 123, 124, 125-1, 125-2, 126, 127, 128, 129, 130-1, 130-2, 131, 132, 133, 134, 135	<u>Written Assessment</u> Lesson(s): 15-2, 20-2, 30-2, 35-2, 45-2, 60-2, 75-2, 80-2, 95-2, 100-2, 125-2, 130-2

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GRADE THREE			
GRADE 3 WKCE-CRT MATHEMATICS ASSESSMENT FRAMEWORKS	INSTRUCTION	MAINTENANCE	ASSESSMENT
MATHEMATICS			
Objective F : Algebraic Relationships			
Subskill F.a.: Patterns, relations and functions			
<p><i>Continued</i> Recognize, extend, describe, create and replicate a variety of patterns including attribute, number and geometric patterns.</p> <ul style="list-style-type: none"> • Picture patterns • Patterns in tables and charts • “What’s-my-rule?” patterns • Patterns using addition and subtraction rules. 		<p>Written Practice Lesson(s): 2, 4, 6, 7, 8, 9, 11, 12, 18, 19, 22, 26, 32, 34, 41, 72, 78, 92, 93, 98, 117, 119, 121, 127, 129</p>	
<p>Determine odd or even with a total set of 20 or less.</p>	<p>New Concept Lesson(s): 9</p>	<p>The Meeting Lesson(s): 11, 12, 13, 14, 15-1, 15-2, 16, 17, 18, 19, 20-1, 20-2, 21, 22, 23, 24, 25-1, 25-2, 26, 27, 28, 29, 30-1, 30-2, 31, 32, 33, 34, 35-1, 35-2, 36, 37, 38, 39, 40-1, 40-2, 41, 42, 43, 44, 45-1, 45-2, 46, 47, 48, 49, 50-1, 50-2, 51, 52, 53, 54, 55-1, 55-2, 56, 57, 58, 59, 60-1, 60-2, 61, 62, 63, 64, 65-1, 65-2, 66, 67, 68, 69, 70-1, 70-2, 71, 72, 73, 74, 75-1, 75-2, 76, 77, 78, 79, 80-1, 80-2, 81, 82, 83, 84, 85-1, 85-2, 86, 87, 88, 89, 90-1, 90-2, 91, 92, 93, 94, 95-1, 96, 97, 98, 99, 100-1, 100-2, 101, 102, 103, 104, 105-1, 105-2, 106, 107, 108, 109, 110-1, 110-2, 111, 112, 113, 114, 115-1, 115-2, 116, 117, 118, 119, 120-1, 120-2, 121, 122, 123, 124, 125-1, 125-2, 126, 127, 128, 129, 130-1, 130-2, 131, 132, 133, 134, 135</p> <p>Written Practice Lesson(s): 9, 11, 13, 14, 16, 22, 95-1</p> <p>Math Center Activities Lesson(s): 9</p>	<p>Oral Assessment Lesson(s): 20-2</p> <p>Written Assessment Lesson(s): 15-2, 25-2</p>

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GRADE THREE			
GRADE 3 WKCE-CRT MATHEMATICS ASSESSMENT FRAMEWORKS	INSTRUCTION	MAINTENANCE	ASSESSMENT
MATHEMATICS			
Objective F : Algebraic Relationships			
Subskill F.b.: Expressions, equations and inequalities			
Demonstrate an understanding that the “=” sign means “the same as” by solving open or true/false number sentences.	<u>New Concept</u> Lesson(s): 47, 56, 57	<u>Written Practice</u> Lesson(s): 16, 47, 48, 52, 55-1, 61, 64, 67, 76, 87, 95-1, 107, 114 <u>Math Center Activities</u> Lesson(s): 47, 59	<u>Oral Assessment</u> Lesson(s): 60-2 <u>Written Assessment</u> Lesson(s): 55-2, 70-2, 80-2, 90-2, 100-2, 115-2
Use notation to represent mathematical thinking: letter or box (variable); operation symbols (+, -, =).	<u>New Concept</u> Lesson(s): 5, 44, 66, 101, 118	<u>Written Practice</u> Lesson(s): 16, 47, 52, 55-1, 61, 64, 67, 68, 69, 71, 74, 76, 78, 83, 87, 95-1, 106, 107, 114, 124 <u>Math Center Activities</u> Lesson(s): 47	<u>Written Assessment</u> Lesson(s): 20-2, 55-2, 70-2, 75-2, 80-2, 90-2, 100-2, 110-2, 115-2
Subskill F.c.: Properties			
Use properties and or relationships of arithmetical thinking to determine and to reason about what number goes in a “box” to make a number sentence true, <ul style="list-style-type: none"> • identity property of e.g., zero Ex: property $12 + 0 =$ “box” adding 1 to any number, commutative property for addition of single-digits 	<u>New Concept</u> Lesson(s): 5, 44, 66, 85-1, 101	<u>Written Practice</u> Lesson(s): 14, 16, 18, 44, 47, 48, 51, 52, 53, 54, 68, 69, 71, 78, 85-1, 101, 102, 104, 105-1, 109, 135 <u>Math Center Activities</u> Lesson(s): 20-1, 44, 101, 105-1, 117	<u>Written Assessment</u> Lesson(s): 20-2, 55-2, 75-2, 80-2, 110-2
Use simple equations in a variety of ways to demonstrate the properties above.	<u>New Concept</u> Lesson(s): 5, 44, 66, 101	<u>Written Practice</u> Lesson(s): 14, 16, 18, 47, 48, 51, 53, 54, 67, 68, 69, 71, 78, 85-1, 101, 102, 104, 105-1, 109, 135 <u>Math Center Activities</u> Lesson(s): 20-1, 44, 101, 105-1	<u>Written Assessment</u> Lesson(s): 20-2, 55-2, 75-2, 80-2, 110-2