



**North Carolina State Math Objectives /Excel Math Correlation
Grade 5**

NORTH CAROLINA MATH OBJECTIVES	Excel Math Lesson Numbers	Excel Math Stretch # Activity Number
Strand: Number and Operations		
COMPETENCY GOAL 1: The learner will understand and compute with nonnegative rational numbers.		
1.01 Develop number sense for rational numbers 0.001 through 999,999.		
a) Connect model, number word, and number using a variety of representations.	1, 3, 11, 13, 15, 29, 34, 39, 44, 59, 65, 80, 108	
b) Build understanding of place value (thousandths through hundred thousands).	1, 21, 25, 26, 27, 33, 34, 65, 80, 81, 98, 100, 108, 121, 131, 132, 146	144 Activity 7
c) Compare and order rational numbers.	6, 14, 28, 31, 37, 39, 41, 43, 65, 68, 76, 78, 83, 85, 87, 88, 89, 91, 93, 98, 100, 105, 106, 109, 111, 112, 113, 116, 117, 125, 127, 130, 136, 146, 148, 149	8, 82, 91, 97
d) Make estimates of rational numbers in appropriate situations.	29, 41, 49, 70, 82, 92, 121	8, 70 Activity 7
1.02 Develop fluency in adding and subtracting non-negative rational numbers (halves, fourths, eighths; thirds, sixths, twelfths; fifths, tenths, hundredths, thousandths; mixed numbers).		
a) Develop and analyze strategies for adding and subtracting numbers.	<p>Whole: 1, 2, 3, 7, 14, 16, 18, 25, 32, 64, 70, 96, 102, 104, 108, 116, 124, 150, 151, 154, 155</p> <p>Decimals / Fractions: 3, 4, 15, 23, 50, 66, 69, 77, 92, 99, 122</p> <p>Multiply whole: 2, 11, 16, 21, 22, 24, 27, 28, 32, 33, 34, 36, 38, 41, 49, 61, 62, 63, 73, 81, 83, 91, 93, 94, 96, 97, 100, 101, 107, 113, 114, 116, 119, 120, 124, 131, 132, 138, 139, 141</p> <p>Multiply Decimals / Fractions: 39, 81, 81, 107, 109, 110, 113, 116, 118, 120, 126, 131, 132, 133, 135, 149, 153</p> <p>Division (whole): 11, 14, 21, 24, 26, 27, 28, 29, 33, 34, 36, 38, 41, 44, 46, 47, 49, 51, 58, 63, 71, 73, 74, 79, 86, 94, 97, 100, 101, 102, 111, 119, 121, 128, 131, 132, 135, 141, 146, 147</p> <p>Division: Decimals / Fractions: 9, 41, 44, 47, 59, 76, 77, 79, 94, 100, 117, 129, 135, 136, 146, 147</p> <p>Percents: 83, 109, 112, 116, 117, 125, 130, 144</p>	<p>1, 2, 3, 4, 5, 7, 9, 12, 13, 17, 18, 19, 20, 21, 24, 27, 31, 32, 33, 36, 41, 55, 61, 64, 66, 69, 79, 80, 84, 89, 92, 95, 96, 102, 103, 105, 107, 110, 111, 113, 114, 116, 118, 120, 124, 125, 132</p> <p>Activity 5, 7</p>



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b) Estimate sums and differences.	4, *23, 25, 49, 70, 82, 92	2, 3, 4, 12, 19, 20, 27, 33, 55, 61, 64, 66, 69, 80, 84, 89, 92, 95, 103, 110, 113, 114, 116, 118, 124, 132 Activity 7
c) Judge the reasonableness of solutions.	14, 25, 49, 70, 82, 92, 153, 154	2, 3, 4, 12, 19, 20, 27, 33, 55, 61, 64, 66, 69, 70, 80, 84, 89, 92, 95, 103, 110, 113, 114, 116, 118, 124, 132 Activity 7
1.03 Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.	2, 4, 9, 10, 13, 14, 15, 16, 25, 29, 32, 44, 51, 57, 60, 63, 69, 70, 73, 74, 79, 82, 92, 97, 102, 103, 105, 109, 114, 116, 117, 130, 133, 135, 137, 142	2, 6, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 23, 24, 26, 27, 28, 29, 30, 31, 33, 35, 36, 37, 38, 39, 42, 44, 46, 48, 51, 53, 54, 55, 56, 57, 58, 61, 62, 64, 65, 67, 68, 69, 70, 72, 75, 77, 79, 80, 83, 84, 86, 89, 90, 95, 98, 99, 101, 102, 103, 106, 108, 110, 111, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 133, 135, 137, 138, 142, 146 Activity 1, 2, 3, 4, 5, 6, 7
Strand: Measurement		
COMPETENCY GOAL 2: The learner will recognize and use standard units of metric and customary measurement.		
2.01 Estimate the measure of an object in one system given the measure of that object in another system.	12, 17, 48, 51, 58, 67, *134 Equivalents: 103 Volume: 72, 84 Area / Perimeter: 54, 56, 63, 95, 134, 144, 152 Time: 8, 57, 73	14, *58, *67, *72, *99, *114, *115 Volume: 143, Activity 13 Area / Perimeter: 122, 138, 139, 140, 147, Activity 8, 9 Time: 53, 125
2.02 Identify, estimate, and measure the angles of plane figures using appropriate tools.	30	
Strand: Geometry		
COMPETENCY GOAL 3: The learner will understand and use properties and relationships of plane figures.		
3.01 Identify, define, describe, and accurately represent triangles, quadrilaterals, and other polygons.	30, 35, 42, 53, 56, 71, 75, 134, 144, 145 Three dimensional: 20	1, 15, 22, 25, 34, 40, 43, 49, 50, 60, 63, 71, 73, 78, 85, 88, 100, 104, 112, 136 Three dimensional: 76, 93, Activity 9, 10, 11, 12
3.02 Make and test conjectures about polygons involving:		
a) Sum of the measures of interior angles.	30, 75	



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b) Lengths of sides and diagonals.	35	15, 34, 63, 73, 78, 85, 99, 106 Activity 8
c) Parallelism and perpendicularity of sides and diagonals.	35, 71	15, 50, 60, 63, 73, 78, 85, 100, 104, 106 Activity 8
3.03 Classify plane figures according to types of symmetry (line, rotational).	45	*22, 25, 40
3.04 Solve problems involving the properties of triangles, quadrilaterals, and other polygons.		
a) Sum of the measures of interior angles.	30, 75	
b) Lengths of sides and diagonals.	134	15, 34, 60, 63, 73, 78, 85, 99, 104, 106 Activity 8
c) Parallelism and perpendicularity of sides and diagonals.	134	15, 34, 50, 60, 63, 73, 78, 85, 100, 106 Activity 8
Strand: Data Analysis and Probability		
COMPETENCY GOAL 4: The learner will understand and use graphs and data analysis.		
4.01 Collect, organize, analyze, and display data (including stem-and-leaf plots) to solve problems.	5, 13, 20, 40, 55, 60, 115, *116, 143	6, 11, 16, 36, 117, 118, 123, 126, 135 Activity 1, 2, 3, 4, 6
4.02 Compare and contrast different representations of the same data; discuss the effectiveness of each representation.	*5, 40, 55	*11, 36, *117, 118, 123, 126, 135 Activity 1, 2, 3, 4, 6
4.03 Solve problems with data from a single set or multiple sets of data using median, range, and mode.	115 Averaging: 102, 103, 135 Ratios: 55	130 Ratios: 137 Activity *1, *2, *3, *4, *6
Strand: Algebra		
COMPETENCY GOAL 5: The learner will demonstrate an understanding of patterns, relationships, and elementary algebraic representation.		
5.01 Describe, extend, and generalize numeric and geometric patterns using tables, graphs, words, and symbols.	6, 7, 9, 13, 42, 55, 86, 87, 104, 111, 143	7, 9, 12, 13, 18, 24, 31, 44, 45, 59, 66, 94, 96, 103, 105, 109, 131, 134, 141, 142, 145, 148
5.02 Use algebraic expressions, patterns, and one-step equations and inequalities to solve problems.	14, 18, 19, 37, 55, 77, 82, 96, 124, 143 Coordinate points: 52, 64, 90, 123, 140	1, 2, 3, 4, 5, 7, 9, 12, 13, 18, 21, 31, 32, 36, 41, 44, 52, 61, 69, 70, 74, 81, 87, 92, 103, 107, 110, 111, 120, 122, 125, 127, 129, 147
5.03 Identify, describe, and analyze situations with constant or varying rates of change.	13, 55	5, 6, 128

* Gives Opportunity