



Oklahoma Standards /Excel Math Correlation
2nd Grade

OKLAHOMA MATH STANDARDS	Excel Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
Standard 1: Patterns - The student will use a variety of problem-solving approaches to extend and create patterns.		
1. Describe, extend, and create patterns using symbols, shapes or designs (e.g., repeating and growing patterns made up of sets of shapes or designs, create patterns by combining different shapes and taking them apart).	2, 96, 101 Order events: 40	21, 27, 36, 96, 110 Order events / things: 44, 48, 54, 59, 64, 73, 78, 84, 88, 89, 98, 102, 107, 111, 116, 120, 145, 148
2. Formulate and record generalizations about number patterns in a variety of situations (e.g., addition and subtraction patterns, build a table showing the cost of one pencil at 10 cents, 2 pencils at 20 cents)	2, 14, 18, 26, 37, 47, 61, 70, 73, 87, 93, 121, 141, 142	22, 25, 26, 31, 32, 38, 39, 41, 42, 45, 46, 47, 49, 51, 52, 56, 57, 60, 61, 65, 68, 70, 75, 80, 82, 90, 91, 95, 96, 97, 101, 104, 109, 113, 114, 115, 118, 119, 124, 125, 130, 133, 134, 136, 137, 143, 147, 149, 150, 151, 152, 153
Standard 2: Number Sense - The student will use numbers and number relationships to acquire basic facts.		
1. Place Value		
a. Use concrete models of hundreds, tens, and ones to develop the concepts of place value.	9, 13, 16, 22, 23, 24, 31, 32, 39, 46, 49, 51, 54, 56, 59, 64, 67, 71, 72, 73, 74, 79, 82, 88, 91, 94, 106, 107, 109, 116, 118, 122, 123, 129, 133, 138, 139, 140, 145, 146	
b. Demonstrate (using concrete objects, pictures, and numerical symbols) fractional parts including halves, thirds, and fourths.	63, 77, 80, 111, 115, 120, 126, 150, 153, 155 Add/subtract fractions: 150	Activity 2
2. Reading and Writing Numbers		
a. Link place value concepts to the reading and writing of numbers (e.g., base-10 blocks).	7, 9, 17, 22, 23, 24, 28, 31, 32, 33, 38, 39, 41, 46, 49, 51, 53, 56, 59, 61, 64, 71, 72, 73, 74, 76, 79, 82, 88, 91, 92, 94, 106, 107, 109, 116, 118, 122, 123, 129, 133, 138, 139, 140, 145, 146, 148	
b. Represent a number in a variety of ways (e.g., write the calendar day in different ways, write 15 as 8 + 7, write 25 as 2 tens + 5 ones or as 1 ten + 15 ones).	1, 3, 4, 6, 9, 13, 18, 20, 21, 22, 24, 28, 31, 32, 36, 39, 42, 44, 46, 48, 49, 51, 56, 57, 59, 66, 67, 71, 74, 86, 88, 91, 94, 95, 97, 107, 108, 116, 118, 121, 123, 129, 131, 141, 147	21, 22, 26, 31, 32, 33, 38, 39, 40, 46, 49, 51, 56, 60, 68, 82, 96, 104, 121, 124, 133, 151
c. Write a number sentence to compare numbers less than 100 (e.g., 5 is more than 2, 3 is less than 7, page 51 comes after 50, and 51 is between 50 and 60).	6, 9, 11, 12, 48, 97, 112, 121, 142	22, 26, 31, 33, 38, 39

*Gives opportunity



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3. Develop and use strategies of estimation (e.g., compose, decompose and regroup numbers, use knowledge of 10 to estimate quantities and sums [two numbers less than 10 can not add up to more than 20], use body parts to estimate measurements).	12, 16, 47, 59, 108, 117, 121, 141, 147	22, 26, 31, 33, 38, 39, 46, 51, 52, 56, 57, 60, 61, 63, 65, 68, 69, 70, 75, 80, 82, 87, 90, 95, 96, 97, 99, 101, 109, 110, 114, 119, 124, 125, 137, 142, 143, 147, 154 Activity 3
4. Determine whether a number is odd or even.	99	115, 128
Standard 3: Number Operations and Computation - The student will compute with whole numbers less than 100.		
1. Develop and apply the concepts of addition and subtraction.		
a. Demonstrate fluency with basic addition and subtraction facts and fact families to 18.	1, 2, 3, 4, 7, 8, 9, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 23, 24, 26, 28, 31, 32, 34, 36, 41, 42, 43, 44, 46, 48, 49, 51, 52, 53, 54, 56, 58, 59, 61, 62, 64, 66, 67, 68, 69, 70, 76, 77, 92, 98, 99, 101, 103, 106, 107, 108, 131, 133, 138, 140, 141, 142, 146, 147, 148, 151, 152 Multiplication facts: 108, 121, 124, 125, 126, 131, 132, 133, 137, 138, 139, 140, 141, 142, 144, 146, 147, 148, 149, 151, 152, 154 Division facts: 136, 137, 147, 152, 154	21, 22, 26, 30, 31, 35, 37, 38, 39, 40, 41, 43, 45, 46, 47, 49, 51, 52, 55, 56, 57, 60, 61, 63, 65, 67, 68, 69, 70, 75, 79, 80, 83, 87, 93, 96, 121, 130, 134, 142, Multiplication: 58, 72, 151
b. Solve two-digit addition and subtraction problems with and without regrouping using a variety of techniques (e.g., concrete, paper and pencil, mental math).	11, 13, 14, 16, 20, 21, 22, 23, 24, 31, 32, 34, 36, 39, 42, 46, 49, 51, 56, 58, 59, 66, 67, 68, 71, 72, 73, 76, 77, 79, 81, 82, 83, 84, 87, 88, 90, 94, 107, 108, 109, 111, 112, 116, 118, 119, 126, 141, 147 Three digit: 92, 102, 106, 122, 129, 131, 133, 139, 145, 146	40, 49, 82, 90, 104, 108, 123, 124, 126, 132, 136, 143, 150, 153
c. Develop operation sense by applying the associative property of addition (e.g., $3 + (2 + 1) = (3 + 2) + 1$).	102, 103, 108, *147	
d. Describe the relationship between addition and subtraction (e.g., addition and subtraction are inverse operations).	1, 13, 20, 42, 56, 67 Multiplication / Division: 137, 152	
2. Use mental strategies (or decomposition strategies) for addition and subtraction (e.g., make a group of 10 objects and 2 objects from a group of 7 objects and 5 objects).	13, 16, 22, 23, 24, 48, 51, 56, 67, 117	21, 22, 26, 30, 31, 33, 38, 39, 41, 46, 51, 52, 56, 57, 60, 61, 68, 69, 70, 71, 75, 80, 82, 87, 90, 95, 96, 97, 99, 109, 110, 119, 124, 125, 130, 134, 137, 142, 151, 154



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3. Complete addition number sentences with a missing addend and use to solve everyday problems.	38, 52, 56, 58, 103, 124, 128 Story Problems: 27, 30, 33, 57, 66, 77, 82, 95, 104, 113, 114, 117, 125, 127, 128, 130, 153, 154	21, 40, 41, 45, 47, 52, 57, 61, 65, 70, 75, 80, 87, 95, 96, 97, 101, 109, 114, 119, 121, 124, 125, 130, 134, 137, 147, 155 Story Problems: 28, 29, 30, 35, 37, 43, 49, 58, 63, 67, 69, 71, 72, 76, 79, 83, 93, 99, 110, 117, 123, 126, 132, 140, 146, 154 Activity 3, 4, 14
Standard 4: Geometry and Measurement - The student will use geometric properties and relationships to recognize and describe shapes and use appropriate units of measure in a variety of situations.		
1. Geometric Properties and Relationships		
a. Sort and classify symmetric and congruent figures.	7, 78, *135, 144	Activity 11
b. Identify two-dimensional geometric shapes in everyday situations (e.g., a stop sign is an octagon).	8, *78, *135	*23, *24, *34, 62, *66, 74, 77, *85, *92, *94, 100, *103, *105, *112, 118, *127, *129, 131, *138, *139, *144 Activity *7, 12, *13
2. Measurement		
a. Measure objects with nonstandard and standard units (e.g., use a human foot [nonstandard] then a ruler [standard] to measure length to the nearest inch).	53, 84, 132	53, 100, 118, 131 Meas. Vol. Act: 1, 2, 3, 4, 5, 6, 7, 8 Meas. Weight Act: 1, 2, 3, 4, 5, 6, 7 Meas. Distance Act: 1, 2, 3, 4, 5, 6 Activity 9
b. Select and use appropriate units of measurement in problem solving and everyday situations.	53, 55, 60, 65, 75, 81, 84, 110, 132, 134 Area: 90 Perimeter: 132	28, 36, 53, 100, 148 Meas. Vol. Act: 1, 2, 3, 4, 5, 6, 7, 8 Meas. Weight Act: 1, 2, 3, 4, 5, 6, 7 Meas. Distance Act: 1, 2, 3, 4, 5, 6 Activity 7, 9, 12
3. Time and Money		
a. Tell time on digital and analog clocks to the quarter-hour.	19, 29, 45, 62, 69, 89, 98, 119, 143 Days / Months: 44, 134, 151	
b. Identify and count money; connect coins and bills with place value.	43, 83, 138, 140, 149 Add/subtract money: 66, 79, 86	72, 108, 117, 123, 126, 132, 140, 146
Standard 5: Data Analysis - The student will demonstrate an understanding of data collection, display and interpretation.		



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1. Collect, sort, organize, and display data in charts, bar graphs, and tables (e.g., collect data on teeth lost and display results in a chart).	5, 35, 130	50, 55, 71, 81, 86, 104, 133 Meas. Vol. Act: 1, 2, 3, 4, 5, 6, 7, 8 Meas. Weight Act: 1, 2, 3, 4, 5, 6, 7 Meas. Distance Act: 1, 2, 3, 4, 5, 6 Activity: 1, 3, 4, 5, 6, 10, 14
2. Summarize and interpret data in charts, bar graphs, and tables.	5, 15, 25, 35, 50, 100, 105, 130 Venn Diagram: 10	50, 55, 71, 81, 86, 104, 133 Meas. Vol. Act: 1, 2, 3, 4, 5, 6, 7, 8 Meas. Weight Act: 1, 2, 3, 4, 5, 6, 7 Meas. Distance Act: 1, 2, 3, 4, 5, 6 Activity: 1, 3, 4, 5, 6, 10, 14
3. Make predictions and estimates to describe data (e.g., predict what data on teeth lost might look like for younger children and/or older children).	5, 15, 25, 35, 50, 100, 105, 130	50, 55, 71, 81, 86, 104, 133 Meas. Vol. Act: 1, 2, 3, 4, 5, 6, 7, 8 Meas. Weight Act: 1, 2, 3, 4, 5, 6, 7 Meas. Distance Act: 1, 2, 3, 4, 5, 6 Activity: 1, 3, 4, 5, 6, 10, 14