



**Illinois Learning Standards**  
**Incorporating the Common Core / *Excel* Math Correlation**  
**2<sup>nd</sup> Grade**

Standards / Objectives	<i>Excel</i> Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
<b>Operations and Algebraic Thinking</b>		
<b>Represent and solve problems involving addition and subtraction.</b>		
CC.2.OA.1 Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	11, 27, 30, 33, 38, 52, 56, 57, 58, 66, 71, 72, 81, 97, 102, 103, 104, 109, 117, 125, 134  Multiplication: 95, 125, 131  Division: 113, 114, 115, 127, 128, 136, 153, 154	21, 22, 26, 30, 31, 33, 35, 37, 38, 39, 40, 41, 42, 43, 45, 46, 47, 49, 51, 52, 56, 57, 58, 60, 61, 63, 65, 67, 68, 69, 70, 71, 72, 75, 76, 79, 80, 82, 83, 86, 87, 90, 93, 95, 97, 99, 100, 101, 108, 109, 110, 114, 117, 118, 121, 123, 125, 126, 130, 131, 132, 133, 134, 136, 140, 142, 146, 147, 150, 151, 152, 153, 154  Multiplication: 119, 155
<b>Add and subtract within 20.</b>		
CC.2.OA.2 Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers.	1, 2, 3, 4, 6, 7, 8, 9, 11, 12, 13, 16 17, 18, 19, 20, 21, 22, 23, 24, 26, 28, 31, 32, 34, 36, 38, 41, 43, 44, 46, 48, 51, 52, 53, 54, 56, 57, 58, 61, 62, 64, 66, 67, 68, 69, 70, 76, 77, 79, 81, 82, 83, 84, 87, 90, 92, 95, 97, 98, 99, 101, 102, 103, 106, 107, 109, 111, 112, 114, 116, 117, 119, 125, 126, 131, 133, 137, 138, 140, 141, 145, 146, 147, 148  Multiply: 108, 121, 131, 132, 133, 134, 137, 138, 139, 140, 141, 142, 144, 146, 147, 148, 149, 152, 154  Divide: 136, 137, 147, 152, 153, 154	21, 22, 26, 31, 33, 38, 39, 41, 42, 45, 46, 47, 51, 52, 56, 57, 58, 60, 61, 65, 67, 68, 70, 71, 72, 75, 76, 79, 80, 83, 87, 90, 95, 96, 97, 99, 100, 101, 108, 109, 110, 114, 117, 118, 121, 123, 125, 126, 130, 131, 132, 134, 140, 142, 146, 147, 150, 151, 152, 153, 154  Multiply: 119, 125, 143, 147, 155
<b>Work with equal groups of objects to gain foundations for multiplication.</b>		
CC.2.OA.3 Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s; write an equation to express an even number as a sum of two equal addends.	*54, *56, *67, *88, *70, *87, <b>99, 105</b>  Ordinals: 7, 76	115, 128
CC.2.OA.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.	9, 13, 16, 22, 23, 24, 31, 32, 39, 42, 46, 49, 51, 54, 56, 59, 67, 71, 72, 73, 82, 88, 91, 94, 106, 107, 116, 118, 122, 123, 129, 145	

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<h2 style="margin: 0;">Number and Operations in Base Ten</h2>
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<b>Understand place value.</b>
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CC.2.NBT.1 Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; e.g., 706 equals 7 hundreds, 0 tens, and 6 ones. Understand the following as special cases:
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a. 100 can be thought of as a bundle of ten tens — called a “hundred.”	91, 106, 107, 116, 123, 129, 145	
b. The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones).	17, 24, 28, 33, 38, 91, 92, 94, 123, 129, 145, 148	
CC.2.NBT.2 Count within 1000; skip-count by 5s, 10s, and 100s.	16, 31, 37, 46, 47, 54, 59, 64, 71, 72, 73, 74, 82, 88, 91, 93, 94, 106, 107, 116, 118, 122, 123, 129, 145  By 1s: 2, 6, 18, 26 By 2s: 70, 87, 105	25, 32, 42, 97, 151
CC.2.NBT.3 Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.	2, 17, 28, 33, 38, 41, 64, 71, 72, 73, 74, 82, 88, 91, 92, 94, 106, 107, 109, 122, 123, 129, 144, 148	
4. Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using $>$ , $=$ , and $<$ symbols to record the results of comparisons.	142 Objects: 3, 6 One / Two-digit : 12, 14, 61, 73, 112	

<b>Use place value understanding and properties of operations to add and subtract.</b>
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CC.2.NBT.5 Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.	1, 6, 9, 13, 16, 20, 22, 23, 24, 28, 32, 36, 39, 42, 48, 51, 56, 59, 67, 71, 72, 73, 76, 82, 88, 94, 107, 118  Multiply: 108, 121, 125, 131, 137, 141	
CC.2.NBT.6 Add up to four two-digit numbers using strategies based on place value and properties of operations.	11, 16, 22, 23, 24, 31, 32, 34, 39, 42, 46, 49, 51, 54, 59, 68, 71, 72, 73, 76, 81, 82, 88, 92, 94, 104, 107, 118, 133  Three-digit : 106, 116, 129, 133, 139, 145, 146	40, 49, 82, 87, 104, 128, 133, 136, 150, 153

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CC.2.NBT.7 Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds.	1, 4, 6, 9, 11, 13, 16, 23, 24, 39, 42, 46, 48, 51, 56, 59, 67, 71, 72, 73, 76, 82, 88, 94, 106, 107, 109, 116, 122, 129, 133, 139	
CC.2.NBT.8 Mentally add 10 or 100 to a given number 100–900, and mentally subtract 10 or 100 from a given number 100–900.	9, 13, 16, 22, 23, 24, 32, 49, 51, 59, 71, 72, 73, 82, 88, 94, 106, 107, 118, 122, 129	104, 151
CC.2.NBT.9 Explain why addition and subtraction strategies work, using place value and the properties of operations.	1, 4, 6, 9, 11, 13, 16, 22, 23, 24, 28, 32, 42, 48, 49, 51, 56, 59, 67, 71, 72, 73, 82, 88, 94, 106, 107, 118, 122, 129	104, 151
<b>Measurement and Data</b>		
<b>Measure and estimate lengths in standard units.</b>		
CC.2.MD.1 Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.	55, 84, 85, 132 Weight: 60 Volume: 65 Perimeter: 132	Weight: 100, Measurement Act 1-7, Activity 11 Volume: Measurement Act 1-8 Distance: Measurement Act 1-6
CC.2.MD.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.	55, 84, 85, 132	
CC.2.MD.3 Estimate lengths using units of inches, feet, centimeters, and meters.	*55, 84, 85, 132	
CC.2.MD.4 Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit.	*55, 84, 85, *132	

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<b>Relate addition and subtraction to length.</b>		
CC.2.MD.5 Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, e.g., by using drawings (such as drawings of rulers) and equations with a symbol for the unknown number to represent the problem.	81, *84, *85  Perimeter: 132	Volume / Capacity: 53
CC.2.MD.6 Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1, 2, ..., and represent whole-number sums and differences within 100 on a number line diagram.	*84, *85  Other Measuring devices: 53	
<b>Work with time and money.</b>		
CC.2.MD.7 Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.	19, 29, 44, 45, 62, 69, 89, 98, 143  Calendar / Months: 134, 151	44, 89
CC.2.MD.8 Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately. Example: If you have 2 dimes and 3 pennies, how many cents do you have?	43, 66, 83, 119, 149  Decimal algorithms: 79, 86, 138, 140	72
<b>Represent and interpret data.</b>		
CC.2.MD.9 Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units.	*84, *85  Other Measuring devices: 53	
CC.2.MD.10. Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put together, take-apart, and compare problems using information presented in a bar graph.	5, 15, 35, 50, 105	40, 49, 55, 133  Activity 1, 8

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<b>Geometry</b>		
<b>Reason with shapes and their attributes.</b>		
CC.2.G.1 Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces.5 Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.	8, 10, 36, 63, 78, 90, 96, 101, 110, 135, 144, 150, 155  Symmetry: 75	23, 24, 27, 34, 36, 62, 66, 74, 77, 85, 92, 94, 103, 105, 112, 127, 129, 138, 139, 144  Activity 2, 9, 10, 12, 13
CC.2.G.2 Partition a rectangle into rows and columns of same-size squares and count to find the total number of them.	63, 80, 90, 96, 150, 155	*23, 24, 34, 36, 62, 74, 85, 92, 94, 103, 105, 112, 127, 129, 138, 139, 144  Activity 2, 13
CC.2.G.3 Partition circles and rectangles into two, three, or four equal shares, describe the shares using the words halves, thirds, half of, a third of, etc., and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape.	63, 80, 96, 111, 114, 115, 120, 126, 150, 155  Objects: 77, 127, 128	*23, 24, 34, 36, 62, 74, 85, 92, 94, 103, 105, 127, 129, 138, 139, 144  Activity 2, 5, 13

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<b>Mathematical Practices</b>		
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CC.K-12.MP.1 Make sense of problems and persevere in solving them.	5, 15, 25, 27, 30, 33, 35, 40, 50, 57, 66, 77, 81, 83, 90, 95, 97, 100, 102, 103, 104, 109, 113, 117, 119, 125, 127, 128, 130, 132, 134, 143, 153, 154	29, 30, 35, 37, 42, 43, 44, 47, 48, 50, 53, 54, 55, 58, 59, 63, 64, 67, 69, 71, 72, 73, 76, 78, 79, 83, 84, 86, 88, 89, 90, 93, 97, 98, 99, 100, 102, 107, 108, 110, 111, 115, 116, 117, 118, 120, 121, 123, 124, 126, 128, 131, 132, 136, 140, 142, 145, 146, 148, 150, 151, 153, 154  Activity 1, 3, 4, 6, 10, 14
CC.K-12.MP.2 Reason abstractly and quantitatively.	5, 15, 25, 27, 30, 33, 35, 40, 50, 57, 66, 77, 81, 83, 90, 95, 97, 100, 102, 103, 104, 109, 113, 117, 119, 125, 127, 128, 130, 132, 134, 143, 153, 154	29, 30, 35, 37, 42, 43, 44, 47, 48, 50, 53, 54, 55, 58, 59, 63, 64, 67, 69, 71, 72, 73, 76, 78, 79, 83, 84, 86, 88, 89, 90, 93, 97, 98, 99, 100, 102, 107, 108, 110, 111, 115, 116, 117, 118, 120, 121, 123, 124, 126, 128, 131, 132, 136, 140, 142, 145, 146, 148, 150, 151, 153, 154  Activity 1, 3, 4, 6, 10, 14
CC.K-12.MP.3 Construct viable arguments and critique the reasoning of others.	5, 15, 25, 27, 30, 33, 35, 40, 50, 57, 66, 77, 81, 83, 90, 95, 97, 100, 102, 103, 104, 109, 113, 117, 119, 125, 127, 128, 130, 132, 134, 143, 153, 154	29, 30, 35, 37, 42, 43, 44, 47, 48, 50, 53, 54, 55, 58, 59, 63, 64, 67, 69, 71, 72, 73, 76, 78, 79, 83, 84, 86, 88, 89, 90, 93, 97, 98, 99, 100, 102, 107, 108, 110, 111, 115, 116, 117, 118, 120, 121, 123, 124, 126, 128, 131, 132, 136, 140, 142, 145, 146, 148, 150, 151, 153, 154  Activity 1, 3, 4, 6, 10, 14
CC.K-12.MP.4 Model with mathematics.	5, 25, 27, 35, 50, 57, 66, 77, 81, 83, 90, 95, 97, 100, 102, 103, 104, 109, 113, 117, 119, 125, 127, 128, 132, 134, 143, 153, 154	28, 29, 30, 35, 37, 42, 43, 47, 50, 53, 55, 58, 63, 67, 71, 72, 76, 79, 83, 86, 90, 93, 97, 99, 100, 108, 110, 115, 117, 118, 121, 123, 124, 126, 128, 131, 132, 136, 140, 142, 146, 150, 151, 153, 154  Activity 1, 2, 3, 5, 8, 11, 14

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CC.K-12.MP.5 Use appropriate tools strategically.	5, 15, 25, 27, 30, 33, 35, 40, 50, 57, 66, 77, 81, 83, 90, 95, 97, 100, 102, 103, 104, 109, 113, 117, 119, 125, 127, 128, 130, 132, 134, 143, 153, 154	29, 30, 35, 37, 42, 43, 44, 47, 48, 50, 53, 54, 55, 58, 59, 63, 64, 67, 69, 71, 72, 73, 76, 78, 79, 83, 84, 86, 88, 89, 90, 93, 97, 98, 99, 100, 102, 107, 108, 110, 111, 115, 116, 117, 118, 120, 121, 123, 124, 126, 128, 131, 132, 136, 140, 142, 145, 146, 148, 150, 151, 153, 154  Activity 1, 3, 4, 6, 10, 14
CC.K-12.MP.6 Attend to precision.	5, 15, 25, 27, 30, 33, 35, 40, 50, 57, 66, 77, 81, 83, 90, 95, 97, 100, 102, 103, 104, 109, 113, 117, 119, 125, 127, 128, 130, 132, 134, 143, 153, 154	29, 30, 35, 37, 42, 43, 44, 47, 48, 50, 53, 54, 55, 58, 59, 63, 64, 67, 69, 71, 72, 73, 76, 78, 79, 83, 84, 86, 88, 89, 90, 93, 97, 98, 99, 100, 102, 107, 108, 110, 111, 115, 116, 117, 118, 120, 121, 123, 124, 126, 128, 131, 132, 136, 140, 142, 145, 146, 148, 150, 151, 153, 154  Activity 1, 3, 4, 6, 10, 14
CC.K-12.MP.7 Look for and make use of structure.	5, 15, 25, 27, 30, 33, 35, 40, 50, 57, 66, 77, 81, 83, 90, 95, 97, 100, 102, 103, 104, 109, 113, 117, 119, 125, 127, 128, 130, 132, 134, 143, 153, 154	29, 30, 35, 37, 42, 43, 44, 47, 48, 50, 53, 54, 55, 58, 59, 63, 64, 67, 69, 71, 72, 73, 76, 78, 79, 83, 84, 86, 88, 89, 90, 93, 97, 98, 99, 100, 102, 107, 108, 110, 111, 115, 116, 117, 118, 120, 121, 123, 124, 126, 128, 131, 132, 136, 140, 142, 145, 146, 148, 150, 151, 153, 154  Activity 1, 3, 4, 6, 10, 14
CC.K-12.MP.8 Look for and express regularity in repeated reasoning.	5, 15, 25, 27, 30, 33, 35, 40, 50, 57, 66, 77, 81, 83, 90, 95, 97, 100, 102, 103, 104, 109, 113, 117, 119, 125, 127, 128, 130, 132, 134, 143, 153, 154	29, 30, 35, 37, 42, 43, 44, 47, 48, 50, 53, 54, 55, 58, 59, 63, 64, 67, 69, 71, 72, 73, 76, 78, 79, 83, 84, 86, 88, 89, 90, 93, 97, 98, 99, 100, 102, 107, 108, 110, 111, 115, 116, 117, 118, 120, 121, 123, 124, 126, 128, 131, 132, 136, 140, 142, 145, 146, 148, 150, 151, 153, 154  Activity 1, 3, 4, 6, 10, 14

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**The following are concepts not required by the CCS but are lessons in Excel Math:**

Probability	25, 35, 100	
Possibilities		50, 81
Reasoning	130	29, 35, 53, 69, 73, 88, 102, 106, 107, 111, 116, 120, 122, 135, 141, 145  Activity 3, 4, 5, 6, 14
Order	40	44, 48, 54, 59, 64, 78, 84, 89, 91, 98, 113, 148, 149
Patterns	96, 101	96
Pre-Algebra	102	