



Michigan 2nd Grade Standards / Excel Math Correlation

Standards / Objectives	Excel Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
STRAND 1 NUMBER and OPERATIONS		
Count, write, and order whole numbers		
N.ME.02.01 Count to 1000 by 1's, 10's and 100's starting from any number in the sequence.	1, 2, 6, 9, 13, 18, 26, 42, 54, 56, 67, 74	25, 32, 39
N.ME.02.02 Read and write numbers to 1000 in numerals and words, and relate them to the quantities they represent.	7, 17, 24, 28, 33, 38, 41, 76, 92, 97, 109, 123, 129, 145, 148	
N.ME.02.03 Compare and order numbers to 1000; use the symbols > and <.	3, 6, 12, 14, 37, 61, 73, 76, 99, 111, 112, 124, 142	25, 32, 39, 90, 91, 113, 115, 128, 136, 149, 150, 153
N.ME.02.04 Count orally by 3's and 4's starting with 0, and by 2's, 5's, and 10's starting from any whole number.	37, 47, 54, 70, 87, 93, 105	42, 47, 97
Understand place value		
N.ME.02.05 Express numbers through 999 using place value, e.g., 137 is 1 hundred, 3 tens, and 7 ones; use concrete materials.	11, 16, 22, 23, 24, 31, 32, 34, 39, 46, 49, 51, 54, 59, 64, 68, 71, 72, 73, 74, 82, 87, 88, 91, 92, 94, 106, 107, 116, 118, 122, 123, 129, 133, 139, 145	
Add and subtract whole numbers		
N.FL.02.06 Decompose 100 into addition pairs, e.g., $99 + 1$, $98 + 2$...	Any number to 100: 1, 9, 13, 20, 28, 36, 42, 48, 56, 67	33
N.MR.02.07 Find the distance between numbers on the number line, e.g., how far is 79 from 26?	4, 6, 9, 11, 13, 22, 26, 39, 42, 48, 56, 67, 70	
N.MR.02.08 Find missing values in open sentences, e.g., $42 + \square = 57$; use relationship between addition and subtraction.	1, 38, 52, 58, 103 Parentheses: 102	21, 41, 45, 51, 57, 61, 65, 70, 75, 80, 82, 87, 95, 96, 100, 101, 109, 114, 119, 124, 125, 130, 134, 137, 143, 147, 155
N.MR.02.09 Given a contextual situation that involves addition and subtraction using numbers through 99: model using objects or pictures; explain in words; record using numbers and symbols; solve.	27, 30, 33, 57, 77, 81, 95, 104, 117, 125, 134	29, 30, 33, 35, 37, 40, 42, 43, 47, 49, 53, 55, 58, 63, 67, 69, 71, 72, 76, 79, 83, 86, 93, 97, 99, 100, 104, 108, 110, 115, 117, 118, 121, 123, 124, 126, 128, 131, 132, 133, 140, 142, 146, 150, 152, 154



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N.FL.02.10 Add fluently two numbers through 99, using strategies including formal algorithms; subtract fluently two numbers through 99.	1, 2, 3, 4, 6, 7, 8, 9, 11, 12, 13, 14, 16, 17, 18, 19, 20, 22, 23, 24, 26, 28, 31, 32, 34, 36, 39, 41, 42, 43, 44, 46, 48, 49, 51, 52, 53, 54, 56, 58, 59, 61, 62, 64, 66, 67, 68, 69, 70, 71, 72, 73, 76, 77, 79, 81, 82, 83, 84, 87, 88, 90, 92, 94, 97, 98, 99, 101, 102, 103, 106, 107, 108, 109, 111, 112, 114, 116, 118, 119, 126, 131, 137, 138, 140, 142, 146, 147, 148, 151, 152 Three Numbers: 4, 16, 21, 34, 46, 51, 54, 147	33, 41, 42, 45, 47, 51, 56, 57, 60, 61, 65, 70, 75, 80, 82, 87, 95, 97, 100, 101, 104, 109, 114, 115, 118, 119, 124, 125, 131, 137, 142, 143, 147, 155 Three or more numbers: 21, 22, 26, 31, 38, 46, 49, 51, 68, 121, 130, 133, 134, 136, 150, 153
N.FL.02.11 Estimate the sum of two numbers with three digits.	*92, *106, *122, *129, *131, *139, *145, *146	90
N.FL.02.12 Calculate mentally sums and differences involving: three-digit numbers and ones; three-digit numbers and tens; three-digit numbers and hundreds.	*122, *131, *133	Two-Digit: 40, 49, 61, 65, 70, 75, 82, 87, 90, 97, 104, 114, 115, 118, 124, 125, 128, 131, 133, 136, 137, 143, 147, 150, 153
Understand meaning of multiplication and division		
N.MR.02.13 Understand multiplication as the result of counting the total number of objects in a set of equal groups, e.g., 3 x 5 gives the number of objects in 3 groups of 5 objects, or $3 \times 5 = 5 + 5 + 5 = 15$.	95, 108, 121, 141	151
N.MR.02.14 Represent multiplication using area and array models.	108, 121, 141	151
N.MR.02.15 Understand division (\div) as another way of expressing multiplication, using fact families within the 5 x 5 multiplication table; emphasize that division “undoes” multiplication, e.g., $2 \times 3 = 6$ can be rewritten as $6 \div 2 = 3$ or $6 \div 3 = 2$.	113, 114, 115, 127, 128, 136, 137, 152, 153, 154	
N.MR.02.16 Given a situation involving groups of equal size or of sharing equally, represent with objects, words, and symbols; solve.	77, 95, 111, 113, 114, 115, 127, 128	
N.MR.02.17 Develop strategies for fluently multiplying numbers up to 5 x 5.	95, 108, 121, 124, 126, 131, 132, 133, 134, 137, 138, 139, 140, 141, 142, 144, 146, 147, 148, 149, 151, 152, 154	58, 72, 95, 101, 109, 110, 114, 119, 125, 130, 134, 137, 143, 147, 151, 155



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Work with unit fractions		
N.ME.02.18 Recognize, name, and represent commonly used unit fractions with denominators 12 or less; model $\frac{1}{2}$, $\frac{1}{3}$, and $\frac{1}{4}$ by folding strips.	*63, *80, 120, *126, 150, 155 Add / Subtract: 150	Activity 2
N.ME.02.19 Recognize, name, and write commonly used fractions: $\frac{1}{2}$, $\frac{1}{3}$, $\frac{2}{3}$, $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$.	63, 80, 120, *126, 150, 155	Activity 2
N.ME.02.20 Place 0 and halves, e.g., $\frac{1}{2}$, $1\frac{1}{2}$, $2\frac{1}{2}$, on the number line; relate to a ruler.	*63, *80, *84, *85, *120, *150, *155	
N.ME.02.21 For unit fractions from $\frac{1}{12}$ to $\frac{1}{2}$ understand the inverse relationship between the size of a unit fraction and the size of the denominator; compare unit fractions from $\frac{1}{12}$ to $\frac{1}{2}$.	*63, *80, *120, *150, *155	Activity 2
N.ME.02.22 Recognize that fractions such as $\frac{2}{2}$, $\frac{3}{3}$, and $\frac{4}{4}$ are equal to the whole (one).	*120, 150, 155	Activity *2
STRAND 3 MEASUREMENT		
Measure, add, and subtract length		
M.UN.02.01 Measure lengths in meters, centimeters, inches, feet, and yards approximating to the nearest whole unit and using abbreviations: cm, m, in, ft, yd.	*55, *60, 84, 85 Weight: 53, 65 Volume: 65	Capacity: 53 Measurement Activity - Distance: 3, 4, 5, 6 Measurement Activity – Weight: 1, 2, 3, 4, 5, 6, 7, Activity 9 Measurement Activity – Volume: 1, 2, 3, 4, 5, 6, 7, 8
M.PS.02.02 Compare lengths; add and subtract lengths (no conversion of units).	84, 85	64, 148 Measurement Activity – Distance: 3, 4, 5, 6
Understand the concept of area		
M.UN.02.03 Measure area using non-standard units to the nearest whole unit.	90	Activity * 13
M.TE.02.04 Find the area of a rectangle with whole number side lengths by covering with unit squares and counting, or by using a grid of unit squares; write the area as a product.	90	Activity * 13



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Tell time and solve time problems		
M.UN.02.05 Using both A.M. and P.M., tell and write time from the clock face in 5 minute intervals and from digital clocks to the minute; include reading time: 9:15 as nine-fifteen and 9:50 as nine-fifty. Interpret time both as minutes after the hour and minutes before the next hour, e.g., 8:50 as eight-fifty and ten to nine. Show times by drawing hands on clock face.	19, 29, 45, 62, 69, 89, 98, 143 Days: 44, 134 Months: 151	Months: 40, 49, 104, 133
M.UN.02.06 Use the concept of duration of time, e.g., determine what time it will be half an hour from 10:15.	Order Events: 40	28 Order Events: 44, 48, 54, 59, 78, 84, 89, 98, 148
Record, add and subtract money		
M.UN.02.07 Read and write amounts of money using decimal notations, e.g., \$1.15.	43, 79, 83, 86, 109, 119, 138, 140, 149	108, 117, 123, 126, 132, 140, 146
M.PS.02.08 Add and subtract money in mixed units, e.g., \$2.50 + 60 cents and \$5.75 - \$3, but not \$2.50 + \$3.10.	43, 66, 79, 86, 109, 119, 138, 140, 149	108, 117, 123, 126, 132, 140, 146
Read thermometers		
M.UN.02.09 Read temperature using the scale on a thermometer in degrees Fahrenheit.	53	
Solve measurement problems		
M.PS.02.10 Solve simple word problems involving length and money.	55, 60, 66, 81	27, 28, 64, 148 Measurement Activity – Distance: 1, 2, 3, 4, 5, 6
M.TE.02.11 Determine perimeters of rectangles and triangles by adding lengths of sides, recognizing the meaning of perimeter.	132	



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STRAND 4 GEOMETRY		
Identify and describe shapes		
G.GS.02.01 Identify, describe, and compare familiar two-dimensional and three-dimensional shapes, such as triangles, rectangles, squares, circles, semi-circles, spheres, and rectangular prisms.	8, 10, 78, 110 Pattern of Shapes: 96, 101	23, 24, 27, 34, 36, 62, 66, 74, 77, 85, 92, 94, 96, 103, 105, 112, 127, 129, 138, 139, 142, 144 Activity 7, 12, 13
G.GS.02.02 Explore and predict the results of putting together and taking apart two-dimensional and three-dimensional shapes.		23, 24, 34, 62, 66, 74, 77, 92, 112, 127, 138 Activity 7, 12, 13
G.GS.02.04 Distinguish between curves and straight lines and between curved surfaces and flat surfaces.	78	27, 36, 66, 77, 85, 92, 94 Activity 7, 12, 13
G.SR.02.05 Classify familiar plane and solid objects, e.g., square, rectangle, rhombus, cube, pyramid, prism, cone, cylinder, and sphere, by common attributes such as shape, size, color, roundness, or number of corners and explain which attributes are being used for classification.	8, 78, 110	23, 24, 34, 36, 62, 66, 74, 77, 85, 92, 94, 96, 103, 105, 112, 127, 129, 138, 139, 142, 144 Activity 7, 12, 13
G.TR.02.06 Recognize that shapes that have been slid, turned, or flipped are the same shape, e.g., a square rotated 45° is still a square.	75, 135, 144	66, 77, 92, 105, 139 Activity 11
Use coordinate systems		
G.LO.02.07 Find and name locations using simple coordinate systems such as maps and first quadrant grids.		

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STRAND 5 DATA and PROBABILITY

Create, interpret, and solve problems involving pictographs

<p>D.RE.02.01 Make pictographs using a scale representation, using scales where symbols equal more than one.</p>		<p>Charts: 55 – Activity 5</p> <p>Measurement Activity – Distance: 1, 2, 3, 4, 5, 6,</p> <p>Measurement Activity – Volume: 1, 2, 3, 4, 5, 6, 7, 8</p> <p>Measurement Activity – Weight: 1, 2, 3, 4, 5, 6, 7</p> <p>Activity 1, 6</p>
<p>D.RE.02.02 Read and interpret pictographs with scales, using scale factors of 2 and 3.</p>	<p>5, 15, 25, 35, 50, 100, 105</p>	<p>Charts: 55 – Activity 5</p> <p>Measurement Activity – Distance: 1, 2, 3, 4, 5, 6,</p> <p>Measurement Activity – Volume: 1, 2, 3, 4, 5, 6, 7, 8</p> <p>Measurement Activity – Weight: 1, 2, 3, 4, 5, 6, 7</p> <p>Activity 1, 6</p>
<p>D.RE.02.03 Solve problems using information in pictographs; include scales such as each ■ represents 2 apples; avoid ■ cases.</p>	<p>5, 15, 25, 35, 50, 100, 105</p> <p>Deductive Reasoning: 130</p>	<p>Charts: 55 – Activity 5</p> <p>Possibilities: 50, 81</p> <p>Deductive Reasoning: 71, 73, 78, 86, 88, 98, 102, 106, 107, 111, 116, 120, 122, 135, 141, 145, Activity 3, 4, 8, 10, 14</p> <p>Measurement Activity – Distance: 1, 2, 3, 4, 5, 6,</p> <p>Measurement Activity – Volume: 1, 2, 3, 4, 5, 6, 7, 8</p> <p>Measurement Activity – Weight: 1, 2, 3, 4, 5, 6, 7</p> <p>Activity 1, 6</p>