



West Virginia / Excel Math Correlation
2nd Grade

West Virginia Standards / Objectives	Excel Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
Standard 1: Number and Operations (MA.S.1)		
MA.2.1.1 Read, write, order, and compare numbers to 1,000.	2, 3, 6, 11, 12, 14, 17, 26, 28, 33, 38, 41, 61, 73, 92, 112, 124, 142, 148	22, 25, 26, 31, 32, 38, 39, 46, 48, 51, 56, 60, 90, 91, 113, 115, 136, 149, 150, 153
MA.2.1.2 Identify any number as odd or even.	38, 87, 99, 111, 115	115, 128
MA.2.1.3 Count and group concrete items by 1's, 10's, and 100's to 1,000.	1, 5, 6, 9, 15, *16, *18, 22, 23, 24, 26, 31, 32, *37, 39, 46, *47, 49, 51, 54, 59, 74, *93, 106, 107, 116, 118, 122, 123, 129, 145	32, 39
MA.2.1.4 Model and identify place value of each digit utilizing standard and expanded form through 1000.	16, 22, 23, 24, 31, 32, 39, 46, 49, 51, 59, 64, 71, 72, 73, 74, 82, 88, 91, 94, 106, 107, 116, 118, 122, 123, 129, 145	
MA.2.1.5 Identify and read any ordinal number.	7, 73, 76, 151	
MA.2.1.6 Round to any 3-digit number nearer 10 and 100 to better understand place value.	*91, *92, *106, *116, *133, *142, *145, *146	
MA.2.1.7 Identify and name fractions as part of a whole and as part of a group using models.	63, 77, 80, 111, 115, 120, 150, 154 Add / Sub: 120, 150	Activity 2
MA.2.1.8 Understand meaning of operations and the relationship between addition and subtraction (e.g., identity element of addition, associative property, commutative property, inverse operations, fact families).	1, 9, 13, 20, 28, 36, 42, 48, 56, 61, 67, 102, 121	
MA.2.1.9 Memorize basic addition facts with sums to 18 and corresponding subtraction facts.	1, 2, 3, 4, 7, 8, 9, 11, 12, 13, 14, 17, 18, 19, 21, 23, 24, 26, 28, 31, 32, 34, 36, 41, 43, 44, 46, 48, 49, 51, 52, 53, 54, 58, 59, 62, 64, 66, 67, 68, 69, 70, 76, 77, 79, 81, 82, 83, 84, 87, 90, 92, 98, 99, 101, 102, 103, 106, 107, 131, 140, 146, 147	22, 26, 31, 38, 46, 51, 56, 60, 68
MA.2.1.10 Model 2- and 3-digit addition and subtraction with regrouping.	23, 24, 31, 32, 39, 41, 46, 49, 51, 54, 56, 59, 67, 68, 71, 72, 73, 76, 88, 94, 106, 107, 116, 118, 122, 129, 131, 133, 138, 139, 140, 145, 146 Multiplication: 95, 108, 121, 124, 125, 126, 131, 132, 133, 134, 137, 138, 139, 140, 141, 142, 144, 146, 147, 148, 149, 151, 152, 154 Division: 112, 113, 114, 115, 127, 128, 136, 137, 147, 152, 153, 154	49, 136, 150, 153



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MA.2.1.11 Add and subtract 2- and 3-digit numbers without regrouping.	11, 13, 14, 16, 22, 27, 28, 34, 48, 56, 59, 86, 92, 97, 101, 102, 103, 106, 108, 109, 111, 112, 114, 1169, 118, 119, 122, 126, 133, 137, 138, 140, 142, 146, 147, 148, 151, 152 Three 1-digit: 4, 16, 21, 36, 48, 54, 95, 108, 118, 121, 131, 141, 147	40, 61, 65, 76, 79, 90, 95, 104, 108, 109, 114, 115, 118, 119, 128, 131, 133, 143
MA.2.1.12 Use rounding to determine the reasonableness of a sum or a difference.	*92, *106, *116, *133, *145, *146	
MA.2.1.13 Solve grade level appropriate story problems that require one or two-step solutions using multiple strategies.	6, 11, 27, 30, 33, 57, 66, 77, 81, 95, 97, 104, 109, 111, 113, 114, 117, 125, 127, 128, 130, 153, 154	29, 30, 35, 37, 43, 50, 53, 55, 58, 59, 63, 64, 67, 69, 71, 72, 73, 76, 78, 79, 81, 83, 84, 86, 88, 93, 99, 100, 106, 108, 110, 111, 116, 117, 118, 120, 121, 122, 123, 126, 132, 135, 140, 141, 146, 154 Activity 3, 6, 8, 9, 10, 14
Standard 2: Algebra (MA.S.2)		
MA.2.2.1 Analyze, describe, extend and create a growing pattern.	2, 18, 26, 37, 47, 61, 70, 87, 93, 96, 101, 142	22, 26, 31, 38, 39, 46, 51, 56, 60, 68, 71, 86, 113, 152
MA.2.2.2 Use input/output model with grade appropriate functions.	2, 37, 38, 47, 52, 58, 70, 87, 93, 103	21, 22, 26, 31, 38, 39, 41, 42, 45, 46, 47, 51, 52, 56, 57, 60, 61, 65, 68, 70, 75, 80, 82, 87, 95, 96, 97, 101, 109, 114, 119, 124, 125, 130, 134, 137, 143, 147, 151, 155
MA.2.2.3 Model and identify patterns of counting by 3's and 4's.		
MA.2.2.4 Given the rule, complete the pattern.	2, 18, 26, 37, 47, 61, 70, 87, 93, 96, 101, 142	21, 22, 26, 31, 38, 39, 46, 51, 56, 60, 68, 71, 86, 96, 113, 152
MA.2.2.5 Use models to demonstrate equivalency of two numerical expressions written as a number sentence.	1, 9, *20, *38, *58, 102, 103, 117, 124	*21, 22, 26, 31, 33, 38, *41, *45, 46, 51, *52, 56, *57, 60, *61, *65, 68, *70, *75, *80, *87, *95, *96, *101, *114, *137, 142, 155
Standard 3: Geometry (MA.S.3)		
MA.2.3.1 Identify and describe a cube, rectangular solid, cylinder, cone, and pyramid according to the number of faces and edges.	110 Two dimension: 8, 10 Parts of a circle: 126	Activity 7, 12, *13 Two-dimension: 23, 24, 34, 36, 62, 66, 74, 77, 85, 92, 94, 103, 105, 112, 127, 129, 138, 139, 144
MA.2.3.2 Compare and contrast plane and solid geometric shapes.	78, 110, 132	Activity 7, 13
MA.2.3.3 Given a design, draw the mirror image.	75, 135	*77 Activity 11



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MA.2.3.4 Model line segments and angles.	*144	
MA.2.3.5 Identify the congruent shape that has been rotated and/or reflected.	*75, 135	66, 77 Activity 11
MA.2.3.6 Plot locations with simple relationships on a coordinate plane.		*27
MA.2.3.7 Identify and draw similar shapes.	78, 110, 144	66, 77 Activity *11, *13
Standard 4: Measurement (MA.S.4)		
MA.2.4.1 Use a ruler to draw and compare lengths given lengths in centimeters and inches.	55, *81, 84, 85	*28, *148 Measurement Activity-Distance: 1, 2, 3, 4, 5, 6
MA.2.4.2 Estimate and determine the perimeter of a polygon.	132	
MA.2.4.3 Estimate and count the number of square units needed to cover a given area.	90	Activity *13
MA.2.4.4 Understand appropriate grade level conversions within a system of measurement.	55, 60	Measurement Activity-Distance: 5, 6
MA.2.4.5 Estimate and determine weight/mass of familiar objects in pounds and kilograms.	*53, *60, 81	53, 100, 118, 131 Measurement Activity-Volume: 1, 2, 3, 4, 5, 6, 7, 8 Measurement Activity-Weight: 1, 2, 3, 4, 5, 6, 7 Activity 9
MA.2.4.6 Order events in relation to time.	40, 130	44, 54, 78, 89 Order other than time: 48, 59, 64, 73, 84, 98, 102, 107, 111, 116, 120, 145, 148
MA.2.4.7 Given a calendar, determine past and future days of the week and identify specific dates.	44, 134, 151	40, 49, 104, 133
MA.2.4.8 Read time to the quarter hour using an analog and digital clock.	19, 29, 45, 62, 69, 89, 98, 143	
MA.2.4.9 Calculate elapsed time to the half hour.	143	
MA.2.4.10 Read, write, and count amounts of money to a dollar.	43, 79, 83, 86, 109, 119, 149	108, 117, 123, 126, 132, 140, 146



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MA.2.4.11 Role-play making change to a dollar.	43, 66, *79, *86, 104, 109	108, 117, 123, 126, 132, 140, 146
MA.2.4.12 Read Celsius and Fahrenheit thermometers.	53	
Standard 5: Data Analysis and Probability (MA.S.5)		
MA.2.5.1 Create, read, and interpret a pictograph with each picture representing greater than or equal to a single unit.	*15, 35, 105	Activity *4
MA.2.5.2 Conduct simple experiments with more than two outcomes and use the data to predict which event is more, less, or equally likely to occur if the experiment is repeated.	25, 35, 100	50, 81 Activity 1, 4, 5, 6
MA.2.5.3 Analyze data represented on a graph using grade level appropriate questions.	5, 15, 35, 50, 100, 105	42, 47, 55, 81, 97, 124, 151 Activity 1, 5, 6
MA.2.5.4 Formulate questions, collect data, organize and display as a chart/graph.	35, *50	42, 47, 50, 55, 81, 97, 124, 151 Activity 1, 4, 5, 6

* Gives opportunity to teach specific Standard