



**West Virginia / Excel Math Correlation**  
**6<sup>th</sup> Grade**

<b>West Virginia Standards / Objectives</b>	<b>Excel Math Lesson Numbers</b>	<b>Stretch Lesson Numbers Activity Numbers</b>
<b>Standard 1: Number and Operations (MA.S.1)</b>		
MA.6.1.1 Read, write, order, and compare numbers using scientific notation.	1, 6, 16, 19, 22, 24, 35, 47, 53, 61, 63, 74, 81, 90, 95	1, 3, 20, 23, 29, 31, 32, 36, 62, 67, 72, 144, 153 Activity 12
MA.6.1.2 Identify prime and composite numbers up to 100.	50	72, 88
MA.6.1.3 Use prime factorization to determine the greatest common factor and least common multiple.	17, 50, 56, 64 Multiples: 1, 6, 9, 26, 132	67, 90, 92, 99, 139 Activity 11, 12
MA.6.1.4 Identify and represent integers on a number line.	*1, 49, 63, 109, 119, 130, 131, *143, *144	23, 29, 36, *81
MA.6.1.5 Use estimation to solve problems with whole numbers, fractions and decimals.	*5, 9, 12, 20, 42, 49, 58, 61, 86, 108, 123, 134, 140, 154	31, 32, 35, 39, 49, 67, 72
MA.6.1.6 Solve problems in context involving addition, subtraction, multiplication, and division of whole numbers, fractions, mixed numbers and decimals.	1, 5, 6, 9, 13, 19, 20, *28, 31, 35, 39, 40, 41, 42, 43, *51, *52, 55, *57, 58, 67, 69, 72, 79, *81, *85, 86, 87, 89, 92, 96, *102, *104, 105, *106, 110, 117, *118, 120, 127, 133, 137, 140, 141, *142, *146, 151, 152, 153	2, 6, 7, 9, 10, 12, 13, 15, 17, 18, 21, 24, 25, 26, 28, 30, 33, 35, 37, 38, 39, 41, 42, 43, 44, 46, 48, 50, 52, 54, 60, 65, 68, 69, 76, 82, 85, 89, 90, 91, 92, 93, 94, 99, 101, 104, 120, 124, 135, 136, 138, 139, 140, 143, 148, 149, 150, 154
MA.6.1.7 Identify, demonstrate, and apply the distributive, commutative, associative and identity properties.	*1, *6, *16, *26, 37, 38	
MA.6.1.8 Convert between fractions, mixed numbers, decimals and percents.	18, 27, 35, 44, 46, 48, 52, 53, 74, 78, 83, 87, 90, 93, 94, 105, 107, 110, 111, 112, 113, 129, 135 Reciprocals: 101	49, 96
MA.6.1.9 Find the percent of a number.	*52, 67, 71, 94, 98, 105, 110, 116, 127, 135, 140	48, 143, 152
<b>Standard 2: Algebra (MA.S.2)</b>		
MA.6.2.1 Simplify numerical expressions using order of operations.	3, 37, 57, 91, 114	5, 8, 21, 22, 27, 28, 31, 37, 39, 42, 44, 46, 60, 62, 65, 68, 69, 70, 81, 82, 86, 96, 132
MA.6.2.2 Identify missing elements in arithmetic and geometric patterns.	8, 21, 33, 40, 54, 57, 73, 84, 100, 149	5, 6, 8, 13, 15, 22, 26, 30, 62, 70, 73, 78, 80, 81, 83, 86, 87, 95, 96, 98, 102, 103, 104, 109, 110, 113, 115, 117, 119, 121, 128, 130, 131, 133, 140, 141, 142, 151, 155

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MA.6.2.3 Explore a variety of patterns, including perfect squares, square roots and exponents.	8, 21, 40, 41, 77, 100	6, 13, 15, 41, 75, 81, 141
MA.6.2.4 Use input/output models and spreadsheets to evaluate functions.	8, 40, 100, 149	4, *10, 42, 75, 81
MA.6.2.5 Solve a proportion using cross multiplication.	40, 148	50
MA.6.2.6 Identify like terms and monomials.	40, 48, 57, 100, 114, 115	8, 16, 75, 81
MA.6.2.7 Model addition, subtraction, multiplication and division of integers.	1, 5, 6, 9, 12, 16, 17, 19, 26, 31, 37, 38, 40, 41, 62, 82, 83, 89, 96, 102, 103, 107, 122, 128, 130, 131, 132, 134, 136, 138, 143, 144, 147, 155	1, 9, 12, 16, 21, 22, 24, 26, 27, 30, 31, 32, 41, 42, 44, 60, 65, 66, 67, 70, 75, 81, 86, 89, 103, 111, 113, 123, 125, 126, 128, 132, 154
MA.6.2.8 Locate and plot points within the four quadrants.	32, 36, 68, 76, 109, 115, 145	
MA.6.2.9 Use variables to represent and solve real world problems appropriate for the 6 <sup>th</sup> grade using multiple strategies.	*1, 3, *6, *9, 18, 40, 69, *83, 89, 148 Deductive Reasoning: 7	*5, 16, 21, *22, *28, 31, *44, 46, 48, 81, *110
<b>Standard 3: Geometry (MA.S.3)</b>		
MA.6.3.1 Classify lines as parallel, intersecting, perpendicular or skew.	14, 36, *60, 148 Three-Dimensional figures: 15 Two-Dimensional figures: 21	118 Three-Dimensional Fig.: Activity 1, 5 Two-Dimensional Fig.: 14, 45, 53, 71, 108, 116, 129, Activity 2 Tessellations: Activity 8
MA.6.3.2 Determine the sum of measures of angles in polygons.	25, 33, 60, 80, *88, 148	Activity 2
MA.6.3.3 Bisect a line segment using a compass and straightedge.	*25, *60	*55 *Activity 1
MA.6.3.4 Draw an angle of a given measure.	25, *60, 80, *88	Activity 2
MA.6.3.5 Identify line symmetry and rotational symmetry in plane figures.	23	*51, *57, *58, 61, *64, 121
MA.6.3.6 Define and sketch similar and congruent plane geometric figures.	23	109, 119, 131 Activity 6 Three-Dimensional: 51, 57, 58, 64 Two-Dimensional: 53
<b>Standard 4: Measurement (MA.S.4)</b>		



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MA.6.4.1 Derive approximation for pi using actual measurements.	125	
MA.6.4.2 Apply formulas to determine perimeter, circumference and/or area of plane figures including compound figures.	30, 60, 75, 76, 121, 124, 125, 139	28, 39, 55, 56, 63, 77, 84, 90 Activity 3
MA.6.4.3 Understand the appropriate grade level conversions.	4, 10, 11, 13, 41, 126, 137, 141, 151, 152	39, 44, 54, 74, 77, 84, 90, 111
MA.6.4.4 Investigate and model volume and surface area.	59, 100, 108, 139	59 Activity 3, 11
MA.6.4.5 Select appropriate units and determine length, weight/mass and capacity/volume using metric and customary systems.	10, 11, *59, 108	*16, 39, 41, 54, 55, 56, 59, 136 Activity 7, 11, Density: 13, Range/Velocity: 14
MA.6.4.6 Construct scale drawings.	29	28, 39, 54 Activity 6
<b>Standard 5: Data Analysis and Probability (MA.S.5)</b>		
MA.6.5.1 Collect, organize, display, and read data using appropriate graphs and tables.	2, 8, 15, 40, 65, 69, 70, 94 Venn Diagrams: 45	4, 11, 33, 43, 52, 81 Activity 9, 11
MA.6.5.2 Interpret data using mean, median, mode, and range.	65, 70, *94 Averages: 55, 120	*33, *43, *52 Activity 10, 11 Averages: 47, 89, 138
MA.6.5.3 Determine the probability of a given event and express that probability as a ratio, decimal or percent.	34, 66, 70, 94, 97, 99, 133, 150	50, 146, 147 Deductive Reasoning: 134, 135
MA.6.5.4 Determine combinations, permutations and probability using sample spaces (by listing and tree diagrams).	8, 69, 70, 150	4, 11, 19, 33, 34, 40, 43, 45, 52, 71, 79, 80, 95, 97, 99, 100, 105, 106, 107, 112, 114, 122, 127, 137, 146, 147

\* Gives opportunity to teach specific Standard