



**West Virginia / Excel Math Correlation**  
**5<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.5.1.1 Read, write, order and compare all whole numbers.	1, 4, 6, 9, 14, 28, 37, 38, 61, 62, 65, 80, 87, 88, 89, 91, 150, 151 Factors: 61, 88, 91 Prime Composite: 62, 93 Exponents: 138	8, 12, 66, 69, 70, 82, 84, 91, 92, 97, 103, 107, 113, 116, 144
MA.5.1.2 Read, write, order and compare all decimals.	4, 66, 85, 98, 100, 111	144
MA.5.1.3 Identify place value of each digit utilizing standard and expanded form in any whole number.	1, 2, 3, *11, 21, 22, 24, 26, 27, 33, 34, 65, 66, 80, 108, 121, 131, 132	*70, 144 Activity 14
MA.5.1.4 Estimate with whole numbers and decimals, including money, to determine reasonableness of an answer.	*4, 25, 38, 41, 70, 82, 92, 121	20, 64, 70, 79, 80, 89, 107, 119, 121, 129 Activity 7
MA.5.1.5 Identify and use the divisibility rules of 2, 3, 5, 9 and 10.	*9, 11, *16, 21, 26, 27, 29, *33, *34, 44, *46, *47, *49, *101, 146	
MA.5.1.6 Compare and order fractions, improper fractions and mixed numbers with like and unlike denominators (e.g., greatest common factor, lowest common multiple).	31, 39, 43, 68, *76, 77, 78, 99, 105, 106, 148	149
MA.5.1.7 Model and write equivalencies of fractions, decimals, percents, and ratios.	4, 31, 39, 55, 59, 65, 76, 83, 109, 112, 113, 116, 117, 125, 130, 136, 148, 149	Activity 14
MA.5.1.8 Add and subtract fractions and mixed numbers.	15, 23, 50, 69, 99, 122	132
MA.5.1.9 Model multiplication and division of fractions to solve the algorithm.	39, 59, 109, 110, 113, 118, 126, 127, 129, 133, 153 Reciprocals: 118	44
MA.5.1.10 Model multiplication of decimals and division of decimals by a whole number divisor.	3, 79, 81, 94, 100, 107, 112, 116, 120, 131, 132, 136, 139, 146 Average: 102, 103, 135	80, 89, 121 Average: 130
MA.5.1.11 Develop fluency in addition, subtraction, multiplication and division of whole numbers.	1, 2, 3, 4, 7, 9, 11, 14, 16, 18, 19, 21, 22, 24, 25, 26, 27, 28, 29, 32, 33, 34, 36, 37, 38, 44, 46, 47, 48, 49, 51, 58, 61, 63, 71, 73, 77, 79, 86, 96, 97, 101, 103, 106, 107, 111, 119, 121, 128, 131, 132, 139, 141, 146, 150, 151, 154, 155	1, 2, 3, 4, 9, 10, 12, 17, 20, 21, 29, 32, 41, 44, 52, 55, 61, 62, 67, 69, 70, 72, 81, 84, 87, 92, 95, 96, 98, 102, 103, 105, 107, 111, 113, 116, 120, 124, 127, 129, 130, 145, 148, 149, 150, 155 Calculators: Activity 5



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MA.5.1.12 Solve grade level appropriate story problems using multiple strategies.	2, 4, 7, 8, 9, 10, 13, 15, 16, 29, 32, 44, 51, 55, 58, 63, 69, 70, 73, 74, 79, 82, 92, 97, 100, 102, 103, 109, 116, 117, 130, 133, 142, 149	3, 5, 6, 7, 9, 10, 11, 14, 15, 16, 17, 19, 20, 23, 24, 26, 27, 28, 29, 30, 31, 33, 35, 36, 37, 38, 39, 42, 44, 46, 47, 48, 51, 53, 54, 55, 57, 58, 59, 61, 62, 64, 67, 68, 70, 72, 74, 75, 77, 79, 80, 83, 86, 89, 90, 92, 96, 98, 99, 101, 102, 103, 105, 108, 111, 114, 115, 117, 119, 120, 121, 123, 124, 125, 126, 127, 129, 130, 133, 135, 148, 149, 150, 152, 154
<b>Standard 2: Algebra (MA.S.2)</b>		
MA.5.2.1 Explore a variety of patterns with missing elements (e.g., square numbers, powers, triangular numbers, arithmetic sequences).	*6, 13, 32, 42, 51, 55, 86, 87, 104, 143	1, 2, 5, 7, 9, 24, 31, 36, 45, 47, 55, 59, 66, 84, 92, 96, 105, 109, 111, 116, 131, 141, 146, 150 Order: 16, 37, 39, 46, 51, 53, 153, Activity 1, 2, 3, 4
MA.5.2.2 Use input/output model with grade appropriate functions.	6, 10, 13, 19, 32, 37, 51, 55, 87, 104, 124, 143	1, 7, 13, 18, 32, 52, 84, 107, 108, 109, 120, 129, 133, 135, 141, 145, 146
MA.5.2.3 Write an equation using a variable to solve problems.	10, 14, 18, 19, 37, 55, 77, 82, 124, 127, 140 Coordinate Points: 52, 64, 90, 95, 123, 140	1, 2, 3, 4, 21, 32, 41, 52, 81, 87, 110, 116, 120, 129, 141, 145
MA.5.2.4 Evaluate an expression given a value for the variable.	*10, 14, 18, 19, 32, 37, 55, 77, 124, 140	*1, *3, *5, 13, 18, *31, 52, 107, 109, 110, 111, 120, 127, 129, 141, 145, 146
<b>Standard 3: Geometry (MA.S.3)</b>		
MA.5.3.1 Classify and compare polygons.	20, 30, 35, 42, 54, 71 Parts of a Circle: 75	15, 22, 25, 34, 40, 43, 45, 49, 50, 60, 63, 71, 73, 78, 85, 88, 100, 104, 112, 136
MA.5.3.2 Construct a 3-dimensional figure from different views (orthogonal drawings).	20	76, 96, *94, 128, 134, 142 Activity 9, 10, 11, 12, 13
MA.5.3.3 Measure angles using a protractor.	30, 75	
MA.5.3.4 Draw a design with more than one line of symmetry.	45	*56, *71
MA.5.3.5 Recognize the images of figures after reflections, translations and rotations.	*45	*22, *25, *40, *56, *71, *73, *128, *134, *142
MA.5.3.6 Draw a similar figure using a scale.	*54	137
<b>Standard 4: Measurement (MA.S.4)</b>		



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MA.5.4.1 Estimate, measure, compare, order and draw lengths of real objects in parts of an inch up to 1/8 of an inch and millimeters.	*12, 17, 48, 64 Distance, Time, Speed: 74	137, 138 Weight: 14, 58, 152 Area: 139 Distance: 148
MA.5.4.2 Determine and compare area of triangles and parallelograms using appropriate formula.	56, 63, 95, 134, 144, 152 Circle: 145	*99, 106, 122, 138, 140, 147 Activity 8
MA.5.4.3 Solve problems using the formulas for determining volume of a rectangular prism.	72, 84 Surface Area: 137	122, 143 Activity 9, 13
MA.5.4.4 Understand the relationship between area and perimeter of a plane figure.	54, 56, 63, 95	*99, 106, 122, 138, 140, 147 Activity 8
MA.5.4.5 Understand appropriate grade level conversions within a system of measure and apply to problem solving situations.	8, 17, 48, 51, 58, 67	122
MA.5.4.6 Evaluate and/or measure the weight/mass of real objects in ounces, pounds, tons, grams, and kilograms.	12	*58, *67, *72, *114, *115, 124, 152
MA.5.4.7 Calculate elapsed time.	8, 51, 57, 73	*39, *54, 125, 151, 154
MA.5.4.8 Select appropriate customary and metric units and the tools for measuring to desired degree of precision.	8, 12, *17, 67	122
MA.5.4.9 Determine actual measurement from scale drawings.	114	122
<b>Standard 5: Data Analysis and Probability (MA.S.5)</b>		
MA.5.5.1 Collect, organize, display, read and interpret data from a problem-solving situation in a stem and leaf plot.	115	*11, *117, 118, *126, *135
MA.5.5.2 Identify probabilities and solve problems involving the probability of an event by using tree diagrams or by construction of a sample space representing all possible results.	5, 60, 117, 142 Possibilities: 58	Activity 4, 6 Possibilities: 65, 123, 132
MA.5.5.3 Construct, read, and interpret tables, charts, and graphs to draw reasonable inferences or verify predictions.	*5, 20, 35, 40, 55, 116	5, 11, 31, 117, 126, 135 Activity 1, 2, 3, 4, 6
MA.5.5.4 Carry out experiments to determine probability.	*5, 60, *117, 142	65
MA.5.5.5 Construct a circle graph.	*5, 60, *116 Venn Diagrams: 53	Activity 6 Venn Diagrams: 117, 126, 135

\* Gives opportunity to teach specific Standard