



**Florida Standards /Excel Math Correlation
Kindergarten**

FLORIDA MATH STANDARDS	Excel Math Lesson Numbers
Strand A: Number Sense, Concepts, and Operations	
Standard 1: The student understands the different ways numbers are represented and used in the real world.	
Benchmark MA.A.1.1.1: The student associates verbal names, written word names, and standard numerals with the whole numbers less than 1000.	
1. counts up to 10 or more objects using verbal names and one-to-one correspondence.	12, 13, 14, 17, 18, 19, 23, 24, 28, 32, 33, 36, 37, 38, 40, 41, 43, 44, 47, 48, 49, 52, 53, 54, 58, 60, 62, 67, 68, 70, 72, 73, 74, 78, 79, 81, 82, 83, 86, 87, 88, 90, 92, 96, 101, 103, 105, 107, 114, 118, 121, 122, 123, 126, 127, 128, 131, 133, 134, 140, 141, 144, 145, 153, 155, 157, 160, 162, 164, 168, 169, 174, 177, 181, 182, 183, 186, 187, 188, 189, 0190, 192, 195, 197, 198
2. reads and writes numerals to 10 or more.	12, 13, 14, 17, 18, 23, 24, 28, 32, 33, 38, 40, 43, 46, 48, 49, 53, 60, 66, 67, 68, 76, 78, 83, 85, 87, 88, 91, 99, 100, 101, 105, 109, 114, 118, 120, 122, 123, 126, 128, 130, 133, 134, 136, 140, 141, 142, 144, 145, 150, 153, 155, 156, 157, 160, 162, 163, 164, 166, 168, 169, 170, 174, 175, 177, 179, 180, 181, 182, 183, 186, 187, 188, 189, 190, 192, 194, 195, 199, 200
3. counts orally to 100 or more.	12, 13, 14, 17, 18, 23, 24, 28, 32, 33, 36, 38, 40, 47, 48, 49, 51, 54, 60, 67, 68, 78, 83, 88, 92, 100, 101, 103, 107, 114, 121, 122, 123, 127, 128, 131, 133, 134, 140, 141, 144, 145, 157, 164, 169, 177, 186, 187, 188, 189, 190
4. knows that cardinal numbers indicate quantity and ordinal numbers indicate position.	42, 148
Benchmark MA.A.1.1.2: The student understands the relative size of whole numbers between 0 and 1000.	
1. uses numbers and pictures to describe how many objects are in a set (to 10 or more).	12, 13, 14, 17, 23, 24, 28, 32, 33, 36, 38, 40, 43, 47, 48, 49, 54, 60, 62, 64, 67, 68, 70, 72, 78, 83, 87, 88, 92, 101, 105, 119, 121, 123, 126, 127, 128, 133, 134, 136, 140, 141, 145, 153, 157, 162, 163, 164, 166, 169, 174, 175, 177, 179, 180, 183, 186, 187, 188, 189, 190, 195, 197
2. uses language such as before or after to describe relative position in a sequence of whole numbers on a number line up to 10 or more (for example, 4 is before 5, 5 is after 4).	With Number Chart: 100, 118, 139, 147, 170
3. compares two or more sets (up to 10 objects in each set) and identifies which set is equal to, more than, or less than the other.	36, 43, 51, 58, 62, 64, 70, 72, 73, 74, 79, 81, 82, 83, 86, 87, 88, 90, 92, 95, 102, 105, 107, 113, 119, 121, 122, 123, 124, 126, 127, 129, 131, 134, 136, 141, 143, 144, 153, 156, 160, 163, 181, 189, 197, 198, 199, 200
Benchmark MA.A.1.1.3: The student uses objects to represent whole numbers or commonly used fractions and relates these numbers to real-world situations.	
1. uses sets of concrete materials to represent quantities, to 10 or more, given in verbal or written form.	12, 13, 14, 17, 18, 23, 24, 28, 32, 33, 36, 38, 40, 41, 44, 48, 49, 51, 60, 67, 68, 72, 73, 78, 79, 82, 83, 87, 88, 92, 101, 103, 119, 121, 122, 123, 127, 134, 143, 144, 150, 155, 156, 160, 162, 163, 166, 168, 169, 174, 177, 179, 180, 181, 182, 186, 187, 188, 189, 190, 192, 197, 198
2. uses concrete materials to represent fractional parts of a whole (one half, one fourth).	*93, *106, *117, *138, *165, *173, *193



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Benchmark MA.A.1.1.4: The student understands that whole numbers can be represented in a variety of equivalent forms.	
1. represents equivalent forms of the same number, up to 10 or more, through the use of concrete materials (for example, using unifix cubes, 5 can be represented as 1+4, 2+3, 0+5; five pennies equal one nickel and ten pennies equal one dime).	41, 43, 44, 64, 67, 73, 79, 82, 83, 92, 95, 102, 113, 116, 119, 124, 127, 129, 136, 137, 141, 143, 149, 150, 153, 156, 159, 160, 175, *176, 182, 185, 190, 197, 198
Standard 2: The student understands number systems.	
Benchmark MA.A.2.1.1: The student understands and applies the concepts of counting (by 2s, 3s, 5s, 10s, 25s, 50s), grouping, and place value with whole numbers between 0 and 100.	
1. with teacher direction, counts orally to 100 or more by 2s, 5s, and 10s using a hundred chart or concrete materials.	
2. uses concrete materials, pictures, and numerals to show the concept of numbers to 10 or more.	12, 13, 14, 17, 18, 23, 24, 28, 32, 33, 36, 38, 40, 48, 49, 54, 60, 67, 68, 78, 82, 83, 88, 90, 92, 101, 103, 119, 122, 123, 127, 128, 131, 134, 136, 143, 144, 149, 150, 156, 157, 160, 162, 166, 169, 174, 175, 177, 179, 180, 181, 182, 183, 186, 187, 189, 190, 192, 195
3. counts backward from ten to one.	114, 123, 128, 134, 140, 162, 169, 174, 177, 183, 188
Benchmark MA.A.2.1.2: The student uses number patterns and the relationships among counting, grouping, and place value strategies to demonstrate an understanding of the whole number system.	
1. groups objects in sets of 2 or more.	13, 17, 23, 24, 32, 41, 44, 48, 49, 54, 60, 68, 78, 83, 88, 101, 114, 123, 128, 134, 140, 145, 162, 169, 177, 188
2. knows the relationships between larger numbers and smaller numbers.	36, 41, 44, 47, 58, 64, 67, 71, 72, 74, 81, 82, 86, 90, 103, 105, 107, 121, 126, 127, 131, 132, 141, 153, 157, 163, 164, 166, 174, 179, 180, 182, 183, 197, 198
Standard 3: The student understands the effects of operations on numbers and the relationships among these operations, selects appropriate operations, and computes for problem solving.	
Benchmark MA.A.3.1.1: The student understands and explains the effects of addition and subtraction on whole numbers, including the inverse (opposite) relationship of the two operations.	
1. demonstrates and describes the effect of putting together and taking apart sets of objects (for example, 3 cubes and 4 cubes is 7 cubes).	36, 40, 41, 44, 64, 72, 73, 79, 83, 90, 92, 95, 102, 105, 107, 113, 119, 124, 126, 127, 129, 132, 136, 141, 143, 153, 160, 163, 166, 174, 175, 179, 180, 183, 186, 187, 189, 190, 194, 195, 197, 198
2. uses a number line to demonstrate how to count up and count back from a given number.	With Number Chart: 100, 118, 139, 147, 170
Benchmark MA.A.3.1.2: The student selects the appropriate operation to solve specific problems involving addition and subtraction of whole numbers.	
1. creates and acts out number stories using objects.	92, 95, 102, 113, 119, 124, 127, 129, 132, 136, 137, 141, 149, 153, 159, 163, 174, 176, 179, 180, 183, 194, 195, 197, 198
2. knows strategies for solving number problems.	36, 92, 95, 102, 103, 105, 107, 113, 119, 124, 126, 127, 129, 131, 132, 136, 137, 141, 143, 149, 150, 153, 156, 159, 160, 163, 166, 174, 175, 179, 180, 182, 183, 186, 187, 189, 190, 194, 195, 197, 198



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Benchmark MA.A.3.1.3: The student adds and subtracts whole numbers to solve real-world problems, using appropriate methods of computing, such as objects, mental mathematics, paper and pencil, calculator.	
1. demonstrates an awareness of addition and subtraction in everyday activities (using concrete objects, models, drawings, role playing).	40, 64, 72, 73, 79, 82, 90, 92, 95, 102, 103, 105, 107, 113, 119, 121, 124, 126, 127, 129, 131, 132, 136, 137, 141, 143, 149, 150, 153, 156, 160, 163, 166, 174, 175, 179, 180, 182, 183, 186, 187, 189, 190, 194, 195, 197, 198, 199, 200
Standard 4: The student uses estimation in problem solving and computation.	
Benchmark MA.A.4.1.1: The student provides and justifies estimates for real-world quantities.	
1. estimates and verifies by counting sets that have more, fewer, or the same number of objects (for example, using a reference set of objects, comparing cards with different numbers of dots, estimating whether sets are more or less than a given number such as five).	23, 28, 32, 36, 41, 43, 44, 47, 48, 58, 60, 62, 64, 68, 70, 72, 73, 74, 78, 79, 81, 82, 86, 87, 88, 90, 103, 105, 107, 126, 127, 157, 164, 183
Standard 5: The student understands and applies theories related to numbers.	
Benchmark MA.A.5.1.1: The student classifies and models numbers as even or odd.	
1. uses concrete objects to explore odd and even numbers (up to 10).	
Strand B: Measurement	
Standard 1: The student measures quantities in the real world and uses the measures to solve problems.	
Benchmark MA.B.1.1.1: The student uses and describes basic measurement concepts including length, weight, digital and analog time, temperature, and capacity.	
1. knows how to communicate measurement concepts.	2, 6, 25, 34, 50, 56, 77, 84, 115, 125, 151, 158, 167, 184
2. measures length of objects and distance using nonstandard concrete materials.	2, 6, 25, 34, 56, 151, 158, 184
3. weighs objects to explore concepts of heavier and lighter.	50, 125, 167
4. describes concepts of time (for example, before or after, day or night).	84, *110, *111, *161
5. describes concepts of temperature (for example, hot or cold).	
6. compares and demonstrates the concept of capacity (for example, full or empty).	77, 167
Benchmark MA.B.1.1.2: The student uses standard customary and metric (centimeter, inch) and nonstandard units, such as links or blocks, in measuring real quantities.	
1. uses nonstandard objects, such as cubes, marbles, paper clips, and pencils, to measure classroom objects (for example, table length is 10 crayons or four pencils).	34, 115, 125, 151, 158, 167, 184



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Standard 2: The student compares, contrasts, and converts within systems of measurement (both standard/nonstandard and metric/customary).	
Benchmark MA.B.2.1.1: The student uses direct (measured) and indirect (not measured) comparisons to order objects according to some measurable characteristics (length, weight).	
1. uses direct (side-by-side) comparisons to sort and order objects by their lengths.	2, 6, 25, 34, 56, 151, 184
2. uses indirect comparisons to compare lengths of objects that cannot be physically compared (side-by-side) (for example, compares height of counters in classroom and cafeteria by using string or in reference to child's own body).	25, 158
3. compares and orders classroom objects by their weights, determining which objects weigh more, less, or about the same.	50, *115, 125, 137
Benchmark MA.B.2.1.2: The student understands the need for a uniform unit of measure to communicate in real-world situations.	
1. uses uniform nonstandard units to measure common classroom objects.	50, 125, 151, 158, 167, 184
Standard 3: The student estimates measurements in real-world problem situations.	
Benchmark MA.B.3.1.1: The student using a variety of strategies, estimates length, widths, time intervals, and money and compares them to actual measurements.	
1. uses nonstandard units to estimate, and verifies by measuring, the length and width of common classroom objects.	2, 6, 25, 34, 151, 158, 184
2. estimates and measures the time of day as day or night; morning, afternoon, or evening; and yesterday, today, or tomorrow.	84, *110, *111, *161
3. knows which of two daily activities takes more or less time.	*84, *110, *111, *161
4. knows and compares the values of a penny (1 cent), nickel (5 cents), and dime (10 cents).	96, 116, 137, 149, 159, 176, 185
Standard 4: The student selects and uses appropriate units and instruments for measurement to achieve the degree of precision and accuracy required in real-world situations.	
Benchmark MA.B.4.1.1: The student selects and uses an object to serve as a unit of measure, such as a paper clip, eraser, or marble.	
1. uses nonstandard units appropriately (for example, pencil, cubes, scoops of rice).	25, 77, 115, 125, 151, 158, 167, 184
Benchmark MA.B.4.1.2: The student selects and uses appropriate instruments, such as scales, rulers, clocks, and technology to measure within customary or metric systems.	
1. knows various measuring tools for measuring length, weight, or capacity.	50, 56, 115, 125, 151, 158, 167



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2. knows ways to measure time, including calendar, days, weeks, months, and days of week.	
Strand C: Geometry and Spatial Sense	
Standard 1: The student describes, draws, identifies, and analyzes two- and three-dimensional shapes.	
Benchmark MA.C.1.1.1: The student understands and describes the characteristics of basic two- and three-dimensional shapes.	
1. knows two-dimensional shapes (for example, circles, squares, rectangles, triangles), describing similarities and differences.	9, 65, 80, 171, 172, 191
2. sorts three-dimensional objects by varied attributes (for example, identifying which can roll, stack, or slide).	2, 6, 11, *173
3. sorts three-dimensional objects according to geometric shapes (for example, cubes, spheres, cylinders, cones).	*173
Standard 2: The student visualizes and illustrates ways in which shapes can be combined, subdivided, and changed.	
Benchmark MA.C.2.1.1: The student understands basic concepts of spatial relationships, symmetry, and reflections.	
1. recognizes symmetry in the environment.	
2. uses concrete materials to make symmetrical figures (for example, paper fold, paint blot).	
3. matches objects to outlines of their shapes.	
4. knows spatial relationships (for example, in or out; above or below; over or under; top, bottom, or middle).	1, 3, 5, 9, 28, 32, 34, 35, 61, 89, 112, 135, 171, 191
5. identifies left and right hand.	5, 7, 15, 35, 55
Benchmark MA.C.2.1.2: The student uses objects to perform geometric transformations, including flips, slides, and turns.	
1. follows directions to move or place an object in relation to another (for example, next to, to the right of).	5, 7, 12, 15, 25, *31, 35, 55, 56, 61, 88, 94, 119, 152
2. uses concrete objects to explore slides and turns.	
Standard 3: The student uses coordinate geometry to locate objects in both two- and three-dimensions and to describe objects algebraically.	
Benchmark MA.C.3.1.1: The student uses real-life experiences and physical materials to describe, classify, compare, and sort geometric figures, including squares, rectangles, triangles, circles, cubes, rectangular solids, spheres, pyramids, cylinders, and prisms, according to the number of faces, edges, bases, and corners.	
1. recognizes, compares, and sorts real-world objects or models of solids.	8, 11, 21, 22, 26, 28, 31, 38, 39, 65, 75



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2. knows the attributes of circles, squares, triangles, and rectangles (for example, edges, corners, curves).	*68, *80
Benchmark MA.C.3.1.2: The student plots and identifies positive whole numbers on a number line.	
1. locates known and unknown numbers on a number line from 0 to 10 or more (for example, finding what number you are on if you move 2 numbers forward or 3 numbers back).	With Number Chart: *100, *118, *139, *147, *170
Strand D: Algebraic Thinking	
Standard 1: The student describes, analyzes, and generalizes a wide variety of patterns, relations, and functions.	
Benchmark MA.D.1.1.1: The student describes a wide variety of classification schemes and patterns related to physical characteristics and sensory attributes, such as rhythm, sound, shapes, colors, numbers, similar objects, similar events.	
1. identifies simple patterns of sounds, physical movements, and concrete objects.	10, 19, 20, 29, 30, 45, 56, 57, 63, 71, 104, 154, 172, 178
2. sorts and classifies objects by color, shape, size, or kind.	4, 11, 16, 26, 31, 34, 56, 59, 61, 65, 69, 75, 89, 97, 108, 112, 135, 172, 191
3. identifies objects that do not belong to a particular group (for example, blue lid in set of red lids).	8, *16, 21, 26, 31, 39, 59, *69, 75, 89, 97, 108, 135
Benchmark MA.D.1.1.2: The student recognizes, extends, generalizes, and creates a wide variety of patterns and relationships using symbols and objects.	
1. predicts and extends existing patterns using concrete materials.	10, 19, 20, 29, 30, 45, 56, 57, 63, 71, 100, 104, 118, 139, 147, 154, 170, 172, 178
2. uses concrete objects to create a pattern.	10, 19, 20, 29, 30, 45, 56, 57, 63, 71, 100, 104, 154, 172, 178
3. transfers patterns from one medium to another (for example, actions, sounds, or concrete objects).	10, 19, *29, 57, 63, 71, 100, 154, 178
Standard 2: The student uses expressions, equations, inequalities, graphs, and formulas to represent and interpret situations.	
Benchmark MA.D.2.1.1: The student understands that geometric symbols (O, □) can be used to represent unknown quantities in expressions, equations, and inequalities.	
1. knows that symbols can be used to represent missing or unknown quantities (for example, fill in the missing number in 5, 6, , 8.).	*100, *118, *139, *147, *170
Benchmark MA.D.2.1.2: The student uses informal methods to solve real-world problems requiring simple equations that contain one variable.	
1. uses informal methods, such as pictures, concrete materials, and role playing, to solve real world problems.	92, 97, 108, 113, 119, 121, 124, 126, 127, 132, 143, 157, 160, 183
2. uses one-to-one matching to determine if two groups are equal.	32, 51, 54, 73, 79, 82, 90, 114, 121, 128, 134, 140, 145, 162, 166, 177



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Strand E: Data Analysis and Probability	
Standard 1: The student understands and uses the tools of data analysis for managing information.	
Benchmark MA.E.1.1.1: The student displays solutions to problems by generating, collecting, organizing, and analyzing data using simple graphs and charts.	
1. knows how to display answers to simple questions involving two categories or choices using concrete materials or pictures on a graph or chart (for example, in a class, number of boys and girls, students with buttons and students with no buttons).	34, 50, 61, 77, *89, 93, 98, 106, 146, 151, 158, 167, 173, 184
2. interprets data exhibited in concrete or pictorial graphs.	34, 50, 61, 77, *89, 93, 98, 106, 146, 151, 158, 167, 173, 184
Benchmark MA.E.1.1.2: The student displays data in a simple model to use the concepts of range, median, and mode.	
1. with teacher direction, uses concrete materials, pictures, or graphs to show range and mode (for example, on a human, block, or picture graph showing number of brother and sisters, range is from z	*34, *50, *61, *77, *93, *98, *146, *151, *158, *167, *173, *184
Benchmark MA.E.1.1.3: The student analyzes real-world data by surveying a sample space and predicting the generalization onto a larger population through the use of appropriate technology, including calculators and computers.	
1. collects, displays data, and makes generalizations (for example, determines number of pockets on 5 children; predicts how many 10 students or the whole class will have).	34, 50, 61, 77, 93, 98, 106, 146, 151, 158, 167, 173, 184
Standard 2: The student identifies patterns and makes predictions from an orderly display of data using concepts of probability and statistics.	
Benchmark: MA.E.2.1.1: The student understands basic concepts of chance and probability.	
1. knows the likelihood of a given situation (for example, Could a lion come visit you? Will we have school tomorrow? Will it rain today?).	93, 106, 117, 138, 165, 173, 193
2. participates in games or activities dependent upon chance (for example, using spinners or number cubes).	93, 106, 117, 138, 165, 173, 193
Benchmark MA.E.2.1.2: The student predicts which simple event is more likely, equally likely, or less likely to occur.	
1. knows if a given event is more likely, equally likely, or less likely to occur (for example, chicken nuggets or pizza for lunch in the cafeteria).	93, 106, 117, 138, 165, 173, 193
Standard 3: The student uses statistical methods to make inferences and valid arguments about real-world situations.	



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Benchmark MA.E. 3.1.1: The student designs a simple experiment to answer a class question, collects appropriate information, and interprets the results using graphical displays of information, such as line graphs, pictographs, and charts.	
1. displays the answer to a simple class question with two categories using concrete materials, a pictograph, or chart (for example, hot or cold; wings or no wings).	34, 50, 61, 77, *89, 93, 98, 106, 146, 173
2. describes data displayed concretely or pictorially.	34, 50, 61, 77, *89, 93, 98, 106, 146, 173
Benchmark MA.E.3.1.2: The student decides what information is appropriate and how data can be collected, displayed, and interpreted to answer relevant questions.	
1. determines through class discussions questions for a simple two-choice survey so that the collected information will answer the questions.	*34, 50, 61, 77, 89, 97, 98, 106, 173
2. knows an appropriate method to display the information.	34, 50, 61, 77, 89, 97, 98, 106, 173

* Gives opportunity