# 2003/2010 ACOS MATHEMATICS CONTENT CORRELATION GRADE 2 

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| CURRENT ALABAMA CONTENT PLACEMENT |  | 2010 GRADE 2 CONTENT |
| 2.1 | Demonstrate concepts of number sense by using multiple representations of whole numbers up to 1000, counting forward and backward by threes from a given number, identifying a number that is 100 more or 100 less than a given number, and differentiating between odd and even numbers. | 2.3. Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2 s ; write an equation to express an even number as a sum of two equal addends. [2-OA3] <br> 2.6. Count within 1000 ; skip-count by 5 s , 10 s, and 100s. [2-NBT2] <br> 2.12. Mentally add 10 or 100 to a given number $100-900$, and mentally subtract 10 or 100 from a given number 100-900. [2-NBT8] |
| 2.1.B. 1 | Identifying position using ordinal numbers to 100th | CONTENT NO LONGER ADDRESSED IN GRADE 2 |
| 2.1.B. 2 | Determining the value of a digit in the ones, tens, hundreds, and thousands place | 2.5. Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; e.g., 706 equals 7 hundreds, 0 tens, and 6 ones. Understand the following as special cases: [2-NBT1] <br> a. 100 can be thought of as a bundle of ten tens - called a 'hundred.' [2-NBT1a] <br> b. The numbers $100,200,300,400,500,600,700,800,900$ refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones.) [2-NBT1b] |
| 2.1.B. 3 | Determining the value of a number expressed in expanded notation | 2.7. Read and write numbers to 1000 using base-ten numerals, number names, and expanded form. [2-NBT3] |
| 2.2 | Apply the operations of addition and subtraction to solve problems involving two- digit numerals, using multiple strategies with and without regrouping. | 2.1. Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem (See Appendix A, Table 1.) $[2-O A 1]$ <br> 2.9. Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction. [2-NBT5] <br> 2.10. Add up to four two-digit numbers using strategies based on place value and properties of operations. [2-NBT6] <br> 2.11. Add and subtract within 1000 , using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds. [2-NBT7] <br> 2.19. Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers $0,1,2, \ldots$, and represent whole-number sums and differences within 100 on a number diagram. [2-MD6] |
| 2.2.B. 1 | Demonstrating computational fluency for basic addition and subtraction facts with sums through 18 and differences with minuends through 18, using horizontal and vertical forms | 2.2. Fluently add and subtract within 20 using mental strategies. (See standard 6, Grade 1 for a list of mental strategies.) By end of Grade 2, know from memory all sums of two one-digit numbers. [2-OA2] |

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| 2.8.B. 3 | Creating designs that exhibit line symmetry | CONTENT NOW ADDRESSED IN GRADE 4: <br> 4.28. Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry. [4-G3] |
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| 2.8.B. 4 | Recognizing the results of changing the position (transformation) of objects or shapes by sliding (translation), turning (rotation), or flipping (reflection) | CONTENT NOW ADDRESSED IN GRADE 8: <br> 8.16. Verify experimentally the properties of rotations, reflections, and translations: [8-G1] <br> a. Lines are taken to lines, and line segments to line segments of the same length. [8-G1a] <br> b. Angles are taken to angles of the same measure.[8-G1b] <br> c. Parallel lines are taken to parallel lines. [8-G1c] |
| 2.9 | Describe the route from one location to another by applying concepts of direction and distance. | CONTENT NO LONGER ADDRESSED IN GRADE 2 |
| 2.9.B. 1 | Following multistep directions to locate objects | CONTENT NO LONGER ADDRESSED IN GRADE 2 |
| 2.9.B. 2 | Reading maps of the school environment | CONTENT NO LONGER ADDRESSED IN GRADE 2 |
| 2.9.B. 3 | Using grids for movement between points | CONTENT NOW ADDRESSED IN GRADE 5: <br> 5.24. Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation. [5-G2] |
| 2.10 2.10.B.1 2.10.B.2 | Measure length in customary units, including inches, feet, and yards. Using metric units Using appropriate tools, including rulers, yard sticks, meter sticks, or tape measures | 2.14. Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes. [2-MD1] <br> 2.15. Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to the size of the unit chosen. [2-MD2] <br> 2.16. Estimate lengths using units of inches, feet, centimeters, and meters. [2-MD3] <br> 2.17. Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit. [2-MD4] |
| 2.11 | Estimate weight and capacity by making comparisons with familiar objects. | CONTENT NOW ADDRESSED IN GRADE 3: <br> 3.17. Measure and estimate liquid volumes and masses of objects using standard units of grams ( g ), kilograms ( kg ), and liters ( I . (Excludes compound units such as cm 3 and finding the geometric volume of a container.) Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem. (Excludes multiplicative comparison problems (problems involving notions of 'times as much'; see Appendix A, Table 2). [3-MD2] |
| 2.12 | Tell time to the minute using analog and digital clocks. | 2.20. Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m. [2-MD7] |
| 2.13 | Create displays, including appropriate labels, for a given set of data using pictographs, tally charts, bar graphs, or single- or double-loop Venn diagrams. | 2.22. Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units. [2-MD9] <br> 2.23. Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems (See Appendix A, Table 1) using information presented in a bar graph. [2-MD10] |

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| 2.13.B. 1 | Interpreting graphic displays | 2.23. Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems (See Appendix A, Table 1) using information presented in a bar graph. [2-MD10] |
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| 2.14 | Determine if one event related to everyday life is more likely or less likely to occur than another event. | CONTENT NOW ADDRESSED IN GRADE 7: <br> 7.21. Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Larger numbers indicate greater likelihood. A probability near 0 indicates an unlikely event, a probability around $1 / 2$ indicates an event that is neither unlikely nor likely, and a probability near 1 indicates a likely event. [7-SP5] |
| CONTENT MOVED TO GRADE 2 IN 2010 ACOS |  |  |
| 3.1.B. 1 | Comparing numbers using the symbols $>,<,=$, and $\neq$ | 2.8. Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >,=, and < symbols to record the results of comparisons. [2-NBT4] |
| 3.3.B. 1 | Applying concepts of multiplication through the use of manipulatives, number stories, arrays, repeated addition, or problem situations | 2.25. Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole. [2-G2] |
| NEW GRADE 2 CONTENT IN 2010 ACOS |  |  |
|  |  | None |

