

Arkansas Mathematics Standards Grade K

## Kindergarten - Arkansas Mathematics

| Counting and Cardinality | Know number names and the count sequence |
| :--- | :--- |
| AR.Math.Content.K.CC.A.1 | Count to 100 by ones, fives, and tens |
| AR.Math.Content.K.CC.A.2 | Count forward, by ones, from any given number up to 100 |
| AR.Math.Content.K.CC.A.3 | Read, write, and represent numerals from 0 to 20 <br> Note: K.CC.A.3 addresses the writing of numbers and using the written numerals 0-20 to describe the <br> amount of a set of objects. Due to varied progression of fine motor and visual development, a reversal of <br> numerals is anticipated for the majority of students. While reversals should be pointed out to students, <br> the emphasis is on the use of numerals to represent quantities rather than the correct handwriting of the <br> actual number itself. |


| Counting and Cardinality | Count to tell the number of objects |
| :---: | :---: |
| AR.Math.Content.K.CC.B. 4 | Understand the relationship between numbers and quantities; connect counting to cardinality <br> When counting objects: <br> - Say the numbers in order, pairing each object with only one number and each number with only one object (one to one correspondence) <br> - Understand that the last number said tells the number of objects counted <br> - Understand that each successive number refers to a quantity that is one larger <br> Note: Students should understand that the number of objects is the same regardless of their arrangement or the order in which they were counted. |
| AR.Math.Content.K.CC.B. 5 | Count to answer "how many?": <br> - Count up to 20 objects in any arrangement <br> - Count up to 10 objects in a scattered configuration <br> - Given a number from 1-20, count out that many objects <br> Note: As students progress they may first move the objects, counting as they move them. Students may also line up objects to count them. If students have a scattered arrangement, they may touch each item as theycount it, or if students have a scattered arrangement, they may finally be able to count them by visuallyscanning without touching the items. |

## Kindergarten - Arkansas Mathematics

| Counting and Cardinality | Compare numbers |
| :--- | :--- |
| AR.Math.Content.K.CC.C.6 | Identify whether the number of objects in one group from 0-10 is greater than (more, most), less than <br> (less, fewer, least), or equal to (same as) the number of objects in another group of 0-10 <br> For example: Use matching and counting strategies to compare values. |
| AR.Math.Content.K.CC.C. 7 | Compare two numbers between 0 and 20 presented as written numerals <br> Note: The use of the symbols for greater than/less than should not be introduced in this grade level. <br> Appropriate terminology to use would be more than, less than, or the same as. |
| AR.Math.Content.K.CC.C. 8 | Quickly identify a number of items in a set from 0-10 without counting (e.g., dominoes, dot cubes, <br> tally marks, ten-frames) |

Kindergarten - Arkansas Mathematics Standards

| Operations and <br> Algebraic Thinking | Understand addition as putting together and adding to, and understand subtraction as taking <br> apart and taking from |
| :--- | :--- |
| AR.Math.Content.K.OA.A.1 | Represent addition and subtraction using objects, fingers, mental images, drawings, sounds (e.g., <br> claps), acting out situations, verbal explanations, expressions (e.g., 2+3), or equations <br> (e.g., $2+3=$ ) |
|  | Note: Expressions and equations are not required but are recommended by the end of <br> Kindergarten. |
| AR.Math.Content.K.OA.A.2 | Solve real-world problems that involve addition and subtraction within 10 (e.g., by using <br> objects or drawings to represent the problem) |
| AR.Math.Content.K.OA.A.3 | Use objects or drawings to decompose (break apart) numbers less than or equal to 10 into pairs in <br> more than one way, and record each decomposition (part) by a drawing or an equation <br> (e.g., $5=2+3$ and $5=4+1$ ) |
| AR.Math.Content.K.OA.A. 4 | Fote: Students should see equations and be encouraged to recognize that the two parts make the <br> whole. However, writing equations is not required. |
| Find the number that makes 10 when added to the given number (e.g., by using objects or |  |
| drawing) and record the answer with a drawing or equation |  |
| Note: Use of different manipulatives such as ten-frames, cubes, or two-color counters, assists |  |
| students in visualizing these number pairs. |  |

Kindergarten - Arkansas Mathematics Standards

| Number and Operations <br> in Base Ten | Work with numbers 11-19 to gain foundations for place value |
| :--- | :--- |
|  |  |
| AR.Math.Content.K.NBT.A.1 | Develop initial understanding of place value and the base-ten number system by showing equivalent <br> forms of whole numbers from 11 to 19 as groups of tens and ones using objects and drawings |

## Kindergarten - Arkansas Mathematics

| Measurement and Data | Describe and compare measurable attributes |  |  |
| :--- | :--- | :---: | :---: |
| AR.Math.Content.K.MD.A.1 | Describe several measurable attributes of a single object, including but not limited to length, weight, <br> height, and temperature <br> Note: Vocabulary may include short, long, heavy, light, tall, hot, cold, warm, or cool. |  |  |
| AR.Math.Content.K.MD.A.2 | Describe the difference when comparing two objects (side-by-side) with a measurable attribute in <br> common, to see which object has more of or less of the common attribute <br> Note: Vocabulary may include shorter, longer, taller, lighter, heavier, warmer, cooler, or holds more. |  |  |
| Measurement and Data | Classify objects and count the number of objects in each category |  |  |
| AR.Math.Content.K.MD.B.3 Classify, sort, and count objects using both measurable and non-measurable attributes such as <br> size, number, color, or shape <br>  Note: Limit category count to be less than or equal to 10. Students should be able to give the <br> reason for the way the objects were sorted. |  |  |  |


| Measurement and Data | Work with time and money |
| :--- | :--- |
|  |  |
| AR.Math.Content.K.MD.C.4 | • Understand concepts of time including morning, afternoon, evening, today, yesterday, <br> tomorrow, day, week, month, and year <br> • Understand that clocks, both analog and digital, and calendars are tools that measure time |
| AR.Math.Content.K.MD.C.5 | Read time to the hour on digital and analog clocks <br> Note: This is an introductory skill and is addressed more formally in the upcoming grade levels. |
| AR.Math.Content.K.MD.C.6 | Identify pennies, nickels, and dimes, and know the value of each <br> Note: This is an introduction skill and is addressed more formally in the upcoming grade levels. |

## Kindergarten - Arkansas Mathematics

| Geometry | Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, <br> cylinders, and spheres) |
| :--- | :--- |
| AR.Math.Content.K.G.A.1 | Describe the positions of objects in the environment and geometric shapes in space using names of <br> shapes, and describe the relative positions of these objects <br> Note: Positions could be inside, outside, between, above, below, near, far, under, over, up, down, <br> behind, in front of, next to, to the left of, to the right of, or beside. |
| AR.Math.Content.K.G.A.2 | Correctly name shapes regardless of their orientations or overall size <br> Note: Orientation refers to the way the shape is turned (upside down, sideways). |
| AR.Math.Content.K.G.A.3 | Identify shapes as two-dimensional (flat) or three-dimensional (solid) |


| Geometry | Analyze, compare, create, and compose shapes |
| :--- | :--- |
| AR.Math.Content.K.G.B.4 | Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using <br> informal language to describe their similarities, differences, parts (e.g., number of sides and <br> vertices/corners), and other attributes (e.g., having sides of equal length) |
| AR.Math.Content.K.G.B.5 | Note: 2-D shapes: squares, circles, triangles, rectangles, and hexagons <br> 3-D shapes: cube, cone, cylinder, and sphere |
| AR.Math.Content.K.G.B.6 shapes in the world by building shapes from components (e.g., sticks and clay balls) and |  |
| by drawing shapes |  |$\quad$| Compose two-dimensional shapes to form larger two-dimensional shapes |
| :--- |
| For example: Join two squares to make a rectangle or join six equilateral triangles to form a hexagon. |

