Oklahoma Mathematics

Grade K

Adopted 2022

Numbers & Operations

1. **Understand the relationship between quantities and whole numbers.** K.N.1
    1. Count aloud forward in sequence to 100 by 1s and 10s. K.N.1.1
    2. Recognize that a number can be used to represent how many objects are in a set up to 10. K.N.1.2
    3. Use ordinal numbers to represent the position of an object in a sequence up to 10. K.N.1.3
    4. Recognize without counting (subitize) the quantity of a small group of objects in organized and random arrangements up to 10. K.N.1.4
    5. Count forward, with and without objects, from any given number up to 20. K.N.1.5
    6. Read, write, discuss, and represent whole numbers from 0 to at least 20. Representations may include numerals, pictures, real-object and pictographs, spoken words, and manipulatives. K.N.1.6
    7. Find a number that is 1 more or 1 less than a given number up to 10. K.N.1.7
    8. Compare and order whole numbers from 0 to 10 with and without objects, using the vocabulary "more than," "less than," or "equal to." K.N.1.8
2. **Develop conceptual understanding with addition and subtraction (up to 10) using objects and pictures.** K.N.2
    1. Compose and decompose numbers up to 10 using objects and pictures. K.N.2.1
3. **Understand the relationship between whole numbers and fractions through fair share.** K.N.3
    1. Distribute a set of objects into at least two smaller equal sets. K.N.3.1
4. **Identify coins by name.** K.N.4
    1. Identify pennies, nickels, dimes, and quarters by name. K.N.4.1

Algebraic Reasoning & Algebra

1. **Duplicate patterns in a variety of contexts.** K.A.1
    1. Sort and group up to 10 objects into a set based upon characteristics such as color, size, and shape. Explain verbally what the objects have in common. K.A.1.1
    2. Recognize, duplicate, complete, and extend repeating, increasing, and decreasing patterns in a variety of contexts (i.e., shape, color, size, objects, sounds, movement). K.A.1.2

Skip to main content

Geometry & Measurement

1. **Recognize and sort basic two-dimensional shapes; use two-dimensional and three-dimensional shapes to represent real-world objects.** K.GM.1
    1. Recognize squares, circles, triangles, and rectangles. K.GM.1.1
    2. Sort two-dimensional objects using characteristics such as shape and size. K.GM.1.2
    3. Identify attributes of two-dimensional shapes using informal and formal geometric language interchangeably, such as the number of corners/vertices and the number of sides/edges. K.GM.1.3
    4. Use smaller two-dimensional shapes to fill in the outline of a larger two-dimensional shape. K.GM.1.4
    5. Compose larger, undefined shapes and structures using three-dimensional objects. K.GM.1.5
    6. Use basic shapes and spatial reasoning to represent objects in the real world. K.GM.1.6
2. **Compare and order objects according to location and measurable attributes.** K.GM.2
    1. Use words to compare objects according to length, size, weight, position, and location. K.GM.2.1
    2. Order up to 6 objects using measurable attributes, such as length and weight. K.GM.2.2
    3. Identify more than one shared attribute between objects, and sort objects into sets. K.GM.2.3
    4. Compare the number of objects needed to fill two different containers. K.GM.2.4
3. **Tell time as it relates to daily life.** K.GM.3
    1. Develop an awareness of simple time concepts within daily life, using age-appropriate vocabulary (e.g., yesterday, today, tomorrow, morning, afternoon, night). K.GM.3.1

Data & Probability

1. **Collect, organize, and interpret categorical data.** K.D.1
    1. Collect and organize information about objects and events in the environment. K.D.1.1
    2. Use categorical data to create real-object graphs and pictographs. K.D.1.2
    3. Draw conclusions from real-object graphs and pictographs. K.D.1.3