

# Grade K

Adopted 2021

## Mathematical Practice Standards

1. Make sense of problems and persevere in solving them. [MP.1](#)

---

2. Reason abstractly and quantitatively. [MP.2](#)

---

3. Construct viable arguments and critique the reasoning of others. [MP.3](#)

---

4. Model with mathematics. [MP.4](#)

---

5. Use appropriate tools strategically. [MP.5](#)

---

6. Attend to precision. [MP.6](#)

---

7. Look for and make use of structure. [MP.7](#)

---

8. Look for and express regularity in repeated reasoning [MP.8](#)

## Kindergarten

### Algebraic Reasoning: Operations

- A. Understand addition and subtraction. [K.OA.A](#)
  1. Represent addition as putting together and adding to and subtraction as taking apart and taking from using objects, drawings, physical expressions, numbers or equations. [K.OA.A.1](#)
  2. Add and subtract within 10. Model authentic contexts and solve problems that use addition and subtraction within 10. [K.OA.A.2](#)
  3. Using objects or drawings, and equations, decompose numbers less than or equal to 10 into pairs in more than one way. [K.OA.A.3](#)
  4. By using objects, drawings, or equations, find the unknown number that makes 10 when added to a given number from 1 - 9. [K.OA.A.4](#)
  5. Fluently add and subtract within 5 with accurate, efficient, and flexible strategies. [K.OA.A.5](#)

---

## **Numeric Reasoning: Counting and Cardinality**

- A. Know number names and the count sequence. **K.NCC.A**
  - 1. Orally count to 100 by ones and by tens in sequential order. **K.NCC.A.1**
  - 2. Count forward beginning from a given number within 100 of a known sequence. **K.NCC.A.2**
  - 3. Identify number names, write numbers, and the count sequence from 0-20. Represent a number of objects with a written number 0-20. **K.NCC.A.3**
- B. Count to tell the number of objects. **K.NCC.B**
  - 4. Understand the relationship between numbers and quantities; connect counting to cardinality. **K.NCC.B.4**
  - 5. Count to answer "how many?" questions using up to 20 objects arranged in a variety of configurations or as 10 objects in a scattered configuration. Given a number from 1-20, count out that many objects. **K.NCC.B.5**
- C. Compare numbers. **K.NCC.C**
  - 6. Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group. **K.NCC.C.6**
  - 7. Compare two numbers between 1 and 10 presented as written numerals. **K.NCC.C.7**

---

## **Numeric Reasoning: Base Ten Arithmetic**

- A. Work with numbers 11-19 to gain foundations for place value. **K.NBT.A**
  - 1. Compose and decompose from 11 to 19 into groups of ten ones and some further ones using objects, drawings, or equations. **K.NBT.A.1**

---

## Geometric Reasoning and Measurement

- A. Identify and describe shapes. **K.GM.A**
  - 1. Describe objects in the environment using names of shapes and describe the relative positions of these objects in their environment. **K.GM.A.1**
  - 2. Correctly name common two-dimensional and three-dimensional geometric shapes regardless of their orientations or overall size. **K.GM.A.2**
  - 3. Identify shapes as two-dimensional or three-dimensional. **K.GM.A.3**
- B. Analyze, compare, create, and compose shapes. **K.GM.B**
  - 4. Analyze and compare two and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts and attributes. **K.GM.B.4**
  - 5. Represent shapes in the world by building shapes from components and drawing shapes. **K.GM.B.5**
  - 6. Compose common shapes to form larger shapes. **K.GM.B.6**
- C. Describe and compare measurable attributes. **K.GM.C**
  - 7. Describe several measurable attributes of a single object using measurable terms, such as length or weight. **K.GM.C.7**
  - 8. Directly compare two objects with a measurable attribute in common, and describe which object has "more" or "less" of the attribute. **K.GM.C.8**

---

## Data Reasoning

- A. Pose investigative questions and collect/consider data. **K.DR.A**
  - 1. Generate questions to investigate situations within the classroom. Collect or consider data that can naturally answer questions by sorting and counting. **K.DR.A.1**
- B. Analyze, represent, and interpret data. **K.DR.B**
  - 2. Analyze data sets by counting the number of objects in each category and interpret results by classifying and sorting objects by count. **K.DR.B.2**