

# Mathematics

## Number Sense 1

### **a Develops understanding of the stable order of the counting sequence and learns to recite numbers in order. 1.A**

- 1 Recognizes and communicates some number words. 1.A.1
  - 2 Recites small parts of the counting sequence. 1.A.2
  - 3 Recites the counting sequence up to five with some errors. 1.A.3
  - 4 Recites the counting sequence to five accurately and beyond five with some errors. 1.A.4
  - 5 Recites the counting sequence to 10 by ones accurately and beyond 10 with some errors. 1.A.5
  - 6 Recites the counting sequence to 20 by ones in order accurately. 1.A.6
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### **b Develops understanding of one-to-one correspondence and cardinality. 1.B**

- 1 Discriminates and compares quantities of objects. 1.B.1
  - 2 Shows awareness or attends to quantities when interacting with objects. 1.B.2
  - 3 Uses words or actions to demonstrate awareness of quantities. 1.B.3
  - 4 Uses number words or signs to count the items in small groups of one to four objects. 1.B.4
  - 5 Uses number words or signs to count up to 10 objects, people, or events to determine how many. 1.B.5
  - 6 Understands that the last number spoken tells the number of objects counted. 1.B.6
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### **c Develops ability to subitize small quantities. 1.C**

- 1 Attends to quantity and notices when objects are added or removed. 1.C.1
- 2 Recognizes a single item as “one.” 1.C.2
- 3 Recognizes a set of one to three items or events and can tell how many without counting. 1.C.3
- 4 Identifies without counting small quantities of up to five items. 1.C.4

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**d Develops ability to recognize and name written numerals. 1.D**

- 1 Recognizes a few written numerals. 1.D.1
  - 2 Names a few written numerals. 1.D.2
  - 3 Associates a quantity with written numerals up to five. 1.D.3
  - 4 Names some written numerals one to 10. 1.D.4
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**Number Relationships  
and Operations 2**

**a Develops understanding of number relationships and operations. 2.A**

- 1 Notices changes in quantity of objects (especially ones that can be detected visually with ease). 2.A.1
  - 2 Uses words or actions that show understanding of the concepts of more, all, and/or none. 2.A.2
  - 3 Demonstrates understanding that adding objects to a group will make a bigger group. 2.A.3
  - 4 Demonstrates understanding that taking away objects will make a smaller group. 2.A.4
  - 5 Compares two small groups of objects (up to five) by matching or counting using language such as, “More than,” “Less than,” or “Same,” to describe the relationship between the groups. 2.A.5
  - 6 Understands that a group of objects can be taken apart into smaller groups and combined into one group. 2.A.6
  - 7 Adds and subtracts within a total set of up to six concrete objects. 2.A.7
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**Measurement 3**

**a Develops knowledge of measurement to compare and describe objects. 3.A**

- 1 Explores objects. 3.A.1
- 2 Shows awareness of the size or length of objects using words or actions. 3.A.2
- 3 Describes objects by measurable attributes (e.g., size, length, and weight) using words such as, “Big,” “Small,” “Heavy,” and “Long,” but not always correctly. 3.A.3
- 4 Describes and compares objects using measurable attributes (e.g., length, size, and weight) using words such as, “Bigger,” “Smaller,” “Heavier,” and “Longer.” 3.A.4
- 5 Orders objects according to observable differences in their attributes (e.g., biggest to smallest). 3.A.5

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**b Develops the ability to sort.** 3.B

- 1 Notices differences between familiar and unfamiliar people, objects, and places. 3.B.1
  - 2 Matches two objects that are the same and selects similar objects from a group. 3.B.2
  - 3 Sorts objects into two or more groups by their similarities or differences. 3.B.3
  - 4 Sorts and classifies objects by one or more attributes (e.g., color, size, shape). 3.B.4
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**c Develops understanding of patterns.** 3.C

- 1 Initiates repeated movements. 3.C.1
  - 2 Copies a repeating pattern. 3.C.2
  - 3 Recognizes, duplicates, and extends simple patterns (i.e., ABAB) using attributes such as color, shape, or size. 3.C.3
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**Geometry** 4

**a Develops ability to recognize shapes and their attributes.** 4.A

- 1 Explores properties of objects. 4.A.1
  - 2 Matches shapes/objects that are visually similar in any way. 4.A.2
  - 3 Recognizes basic shapes (i.e., circle, triangle, square or rectangle of different sizes). 4.A.3
  - 4 Understands and uses names of shapes when identifying objects. 4.A.4
  - 5 Uses 2D and 3D objects to represent real-world objects. 4.A.5
  - 6 Recognizes and compares shapes of different sizes and orientations. 4.A.6
  - 7 Uses shapes to create objects or pictures. 4.A.7
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**b Develops understanding of spatial relationships.** 4.B

- 1 Explores movement of own body and objects in surrounding environment. 4.B.1
- 2 Explores and demonstrates how things fit and move in space. 4.B.2
- 3 Responds to and begins to use words or actions that describe the position or direction of an object. 4.B.3
- 4 Shows understanding of positions in space by using position words (prepositions) and by following directions from an adult. 4.B.4