

# Essential Elements: Grade 3

## Operations and Algebraic Thinking 3.OA

### A Represent and solve problems involving multiplication and division. M.3.OA.A

- 1 Use repeated addition to find the total number of objects and determine the sum. M.EE.3.OA.1
- 2 Use repeated addition to find the total number of objects and determine the sum. M.EE.3.OA.2
- 3 Not applicable. See M.EE.3.OA.1 and M.EE.5.NBT.5.

### B Understand properties of multiplication and the relationship between multiplication and division. M.3.OA.B

- 4 Not applicable. See M.EE. N.CN.2.
- 5 Not applicable. See M.EE.5.NBT.6.

### C Multiply and divide within 100. M.3.OA.C

- 6 Solve addition and subtraction problems within 20, when the result is unknown. M.EE.3.OA.6

### D Solve problems involving the four operations and identify and explain patterns in arithmetic. M.3.OA.D

- 7 Solve one-step real-world problems within 20, using addition or subtraction. M.EE.3.OA.7
- 8 Identify arithmetic patterns. M.EE.3.OA.8

## Number and Operations in Base Ten 3.NBT

### A Use place value understanding and properties of operations to perform multi-digit arithmetic, using a variety of strategies. M.3.NBT.A

- 1 Use decade numbers (10, 20, 30) as benchmarks to demonstrate understanding of place value for numbers 0-30. M.EE.3.NBT.1
- 2 Demonstrate understanding of place value to tens. M.EE.3.NBT.2
- 3 Count by tens using models (e.g., objects, base ten blocks, money). M.EE.3.NBT.3

## Number and Operations – Fractions 3.NF

### A Develop understanding of fractions as numbers. M.3.NF.A

- 1 Differentiate a fractional part from a whole. M.EE.3.NF.1
- 2 Differentiate a fractional part from a whole. M.EE.3.NF.2
- 3 Differentiate a fractional part from a whole. M.EE.3.NF.3

## Measurement and Data 3.MD

### A Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects. M.3.MD.A

- 1 Tell time to the hour on a digital clock. M.EE.3.MD.1
  - 2 Identify the appropriate measurement tool to solve one step word problems involving mass and volume. M.EE.3.MD.2
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### B Represent and interpret data. M.3.MD.B

- 3 Use picture or bar graphs to answer questions about the data. M.EE.3.MD.3
  - 4 Measure the length of objects using standard tools including rulers, yardsticks, and meter sticks. M.EE.3.MD.4
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### C Geometric measurement: understand concepts of area and relate area to multiplication and to addition. M.3.MD.C

- 5 Not applicable. See M.EE.4.MD.3.
  - 6 Not applicable. See M.EE.4.MD.3.
  - 7 Not applicable. See M.EE.4.MD.3.
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### D Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures. M.3.MD.D

- 8 Not applicable. See M.EE.3.MD.4.
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## Geometry 3.G

### A Reason with shapes and their attributes. M.3.G.A

- 1 Describe attributes of two dimensional shapes. M.EE.3.G.1
- 2 Recognize shapes that have been partitioned into equal areas. M.EE.3.G.2