Iowa Essential Elements for Mathematics

First Grade

Operations and Algebraic Thinking 1.OA

A. Major Cluster: Represent and solve problems involving addition and subtraction. 1.OA.A

- 1.a Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), or acting out situations. EE.1.OA.1.A
- 1.b Recognize two groups that have the same or equal quantity. EE.1.OA.1.B
- 2 Use "putting together" to solve problems with two sets. EE.1.OA.2

B. Major Cluster: Understand and apply properties of operations and the relationship between addition and subtraction. 1.OA.B

- 3 See EE.6.EE.3 and EE.N-CN.2
- 4 See EE.1.NBT.4 and EE.1.NBT.6

C. Major Cluster: Add and subtract within 20. 1.OA.C

- 5.a Use manipulatives or visual representations to indicate the number that results when adding one more. EE.1.OA.5.A
- 5.b Apply knowledge of "one less" to subtract one from a number. EE.1.OA.5.B
- 6 See EE.3.OA.4

D. Major Cluster: Work with addition and subtraction equations. 1.OA.D

- 7 See EE.1.OA.1.b and EE.2.NBT.5.a
- 8 See EE.3.OA.4

Number and Operations in Base Ten 1.NBT

A. Major Cluster: Extend the counting sequence. 1.NBT.A

- 1.a Count by ones to 30. EE.1.NBT.1.A
- 1.b Count as many as 10 objects and represent the quantity with the corresponding numeral. EE.1.NBT.1.B

B. Major Cluster: Understand place value. 1.NBT.B

- 2 EE.1.NBT.2 Create sets of 10.
- 3 Compare two groups of 10 or fewer items when the number of items in each group is similar. EE.1.NBT.3

Major Cluster: Use place value understanding and properties of operations to add and subtract. 1.NBT.C

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4 Compose numbers less than or equal to five in more than one way. EE.1.NBT.4

5 See EE.1.OA.5.a and EE.1.OA.5.b

6 Decompose numbers less than or equal to five in more than one way. EE.1.NBT.6

Measurement and Data 1.MD

A. Major Cluster: Measure lengths indirectly and by iterating length units. 1.MD.A

1-2 Compare lengths to identify which is longer/shorter, taller/shorter. EE.1.MD.1-2

1-2 Compare lengths to identify which is longer/shorter, taller/shorter. EE.1.MD.1-2

B. Additional Cluster: Work with time and money. 1.MD.B

3.a Demonstrate an understanding of the terms tomorrow, yesterday, and today. EE.1.MD.3.A

3.b Demonstrate an understanding of the terms morning, afternoon, day, and night. EE.1.MD.3.B

3.c Identify activities that come before, next, and after. EE.1.MD.3.C

3.d Demonstrate an understanding that telling time is the same every day. EE.1.MD.3.D

C. Supporting Cluster: Represent and interpret data. 1.MD.C

4 Organize data into categories by sorting. EE.1.MD.4

Geometry 1.G

A. Additional Cluster: Reason with shapes and their attributes. 1.G.A

1 Identify the relative position of objects that are on, off, in, and out. EE.1.G.1

2 Sort shapes of same size and orientation (circle, square, rectangle, triangle). EE.1.G.2

3 Put together two pieces to make a shape that relates to the whole (i.e., two semicircles to make a circle, two squares to make a rectangle). EE.1.G.3