Iowa Essential Elements for Mathematics

Second Grade

Operations and Algebraic Thinking 2.OA

A. Major Cluster: Represent and solve problems involving addition and subtraction. 2.OA.A

1 See EE.3.OA.4

B. Major Cluster: Add and Subtract within 20. 2.OA.B

2 See EE.2.NBT.6–7 and EE.3.OA.4

C. Supporting Cluster: Work with equal groups of objects to gain foundations for multiplication. 2.OA.C

3 Equally distribute even numbers of objects between two groups. EE.2.OA.3

4 Use addition to find the total number of objects arranged within equal groups up to a total of 10. EE.2.OA.4

Number and Operations in Base Ten 2.NBT

A. Major Cluster: Understand place value. 2.NBT.A

1 Represent numbers up to 30 with sets of tens and ones using objects in columns or arrays. EE.2.NBT.1

2.a Count from 1 to 30 (count with meaning; cardinality). EE.2.NBT.2.A

2.b Name the next number in a sequence between 1 and 10. EE.2.NBT.2.B

3 Identify numerals 1 to 30. EE.2.NBT.3

4 Compare sets of objects and numbers using appropriate vocabulary (more, less, equal). EE.2.NBT.4

B. Major Cluster: Use place value understanding and properties of operations to add and subtract. 2.NBT.B

5.a Identify the meaning of the "+" sign (i.e., combine, plus, add), "–" sign (i.e., separate, subtract, take), and the "=" sign (equal). 2.NBT.B.5.A

5.b Using concrete examples, compose and decompose numbers up to 10 in more than one way. 2.NBT.B.5.B

6 Use objects, representations, and numbers (0–20) to add and subtract. 2.NBT.B.6

7 Use objects, representations, and numbers (0–20) to add and subtract. 2.NBT.B.7

Measurement and Da

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A. Major Cluster: Measure and estimate lengths in standard units. 2.MD.A

1 Measure the length of objects using nonstandard units. EE.2.MD.1

3 Order by length using non-standard units. EE.2.MD.3

4 Order by length using non-standard units. EE.2.MD.4

B. Relate additional and subtraction to length. 2.MD.B

5 Increase or decrease length by adding or subtracting unit(s). EE.2.MD.5

6 Use a number line to add one more unit of length. EE.2.MD.6

C. Supporting Cluster: Work with time and money. 2.MD.C

7 Identify on a digital clock the hour that matches a routine activity. EE.2.MD.7

1 Recognize there is a relationship between standard units of time (such as 7 days in a week, 60 minutes in an hour, etc.). EE.2.MD.IA.C.1

8 Recognize that money has value. EE.2.MD.8

D. Supporting Cluster: Represent and interpret data. 2.MD.D

9 Create picture graphs from collected measurement data. EE.2.MD.9-10

10 Create picture graphs from collected measurement data. EE.2.MD.9-10

Geometry 2.G

A. Additional Cluster: Reason with shapes and their attributes. 2.G.A

1 Identify common two-dimensional shapes: square, circle, triangle, and rectangle. EE.2.G.1

3 See EE.4.G.3 and EE.4.NF.1–2