Iowa Essential Elements for Mathematics

Third Grade

Operations and Algebraic Thinking 3.OA

A. Major Cluster: Represent and solve problems involving multiplication and division. 3.OA.A

1 Use repeated addition to find the total number of objects and determine the sum. EE.3.OA.1-2

2 Use repeated addition to find the total number of objects and determine the sum. EE.3.OA.1-2

3 See EE.3.OA.1 and EE.5.NBT.5

4 Solve addition and subtraction problems when result is unknown, limited to operands and results within 20. EE.3.OA.4

B. Major Cluster: Use properties of operations and the relationship between multiplication and division. 3.OA.B

5 See EE.N-CN.2

6 See EE.5.NBT.6–7

C. Major Cluster: Multiply and divide within 100. 3.OA.C

7 See EE.7.NS.2.a and EE.7.NS.2.b

D. Major Cluster: Solve problems involving the four operations and identify and explain patterns in arithmetic. 3.OA.D

8 Solve one-step real-world problems using addition or subtraction within 20. EE.3.OA.8

9 Identify arithmetic patterns. EE.3.OA.9

Number and Operations in Base Ten 3.NBT

A. Additional Cluster: Use place value understanding and properties of operations to perform multidigit arithmetic. 3.NBT.A

1 Use decade numbers (10, 20, 30) as benchmarks to demonstrate understanding of place value for numbers 0–30. EE.3.NBT.1

2 Demonstrate understanding of place value to tens. EE.3.NBT.2

3 Count by tens using models such as objects, base ten blocks, or money. EE.3.NBT.3

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Major Cluster: Understand fractions as numbers. 3.NF.A

1 Differentiate a fractional part from a whole. EE.3.NF.1–3

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

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

Measurement and Data 3.MD

A. Major Cluster: Solve problems with time and measured quantities. 3.MD.A

1 Tell time to the hour on a digital clock. EE.3.MD.1

2 Identify the appropriate measurement tool to solve one-step word problems involving mass and volume. EE.3.MD.2

B. Supporting Cluster: Represent and Interpret Data. 3.MD.B

3 Use picture or bar graph data to answer questions about data. EE.3.MD.3

4 Measure length of objects using standard tools, such as rulers, yardsticks, and meter sticks. EE.3.MD.4

C. Major Cluster: Geometric measurement: understand concepts of area and relate area to multiplication and to addition. 3.MD.C

5 See EE.4.MD.2

6 See EE.4.MD.2

7 See EE.4.MD.2

D. Additional Cluster: Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures. 3.MD.D

1 See EE.7.G.4 and EE.8.G.9

Geometry 3.G

A. Supporting Cluster: Reason with shapes and their attributes. 3.G.A

1 Describe attributes of two-dimensional shapes. EE.3.G.1

2 Recognize that shapes can be partitioned into equal areas. EE.3.G.2