Massachusetts Mathematics

Grade Pre-K

Adopted 2017

Standards for Mathematical Practice

1. **Make sense of problems and persevere in solving them.** MP.1
2. **Reason abstractly and quantitatively.** MP.2
3. **Construct viable arguments and critique the reasoning of others.** MP.3
4. **Model with mathematics.** MP.4
5. **Use appropriate tools strategically.** MP.5
6. **Attend to precision.** MP.6
7. **Look for and make use of structure.** MP.7
8. **Look for and express regularity in repeated reasoning.** MP.8

Counting and Cardinality

A. Know number names and the counting sequence. PK.CC.A

1. Listen to and say the names of numbers in meaningful contexts. PK.CC.A.1
2. Recognize and name written numerals 0–10. PK.CC.A.2

B. Count to tell the number of objects. PK.CC.B

3. Understand the relationships between numerals and quantities up to 10. PK.CC.B.3

C. Compare numbers. PK.CC.C

4. Count many kinds of concrete objects and actions up to ten, using one-to-one correspondence, and accurately count as many as seven things in a scattered configuration. Recognize the "one more," "one less" patterns. PK.CC.C.4
5. Use comparative language, such as more/less than, equal to, to compare and describe collections of objects. PK.CC.C.5

Operations and Algebraic Thinking

A. Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from. PK.OA.A

1. Use concrete objects to model real-world addition (putting together) and subtraction (taking away) problems up through five. PK.OA.A.1

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Measurement and Data

A. Describe and compare measurable attributes. PK.MD.A

1. Recognize the attributes of length, area, weight, and capacity of everyday objects using appropriate vocabulary (e.g., long, short, tall, heavy, light, big, small, wide, narrow). PK.MD.A.1
2. Compare the attributes of length and weight for two objects, including longer/shorter, same length; heavier/lighter, same weight; holds more/less, holds the same amount. PK.MD.A.2

B. Classify objects and count the number of objects in each category. PK.MD.B

3. Sort, categorize, and classify objects by more than one attribute. PK.MD.B.3

C. Work with money. PK.MD.C

4. Recognize that certain objects are coins and that dollars and coins represent money. PK.MD.C.4

Geometry

A. Identify and describe shapes (squares, circles, triangles, rectangles). PK.G.A

1. Identify relative positions of objects in space, and use appropriate language (e.g., beside, inside, next to, close to, above, below, apart). PK.G.A.1
2. Identify various two-dimensional shapes using appropriate language. PK.G.A.2

B. Analyze, compare, create, and compose shapes. PK.G.B

3. Create and represent three-dimensional shapes (ball/sphere, square box/cube, tube/cylinder) using various manipulative materials (such as Popsicle sticks, blocks, pipe cleaners, pattern blocks). PK.G.B.3