

**Mathematics**  
**Grade-Level Expectations: Kindergarten**

**Number and Number Relations**

1. Count by ones to 20 (N-1-E) (N-3-E)
2. Count a set of 20 or fewer objects by establishing a 1-to-1 correspondence between number names and objects (N-1-E) (N-3-E) (A-1-E)
3. Use the ordinal numerals 1<sup>st</sup> through 10<sup>th</sup> to discuss positions in ordered lists (N-1-E)
4. Identify the numerals for the numbers 0 through 20 (N-1-E) (N-3-E)
5. Using a number line or chart, identify the numbers coming before/after a given number and between 2 given numbers (N-1-E) (N-3-E) (A-1-E)
6. Identify pennies, nickels, and dimes and their values using the cent sign (*¢*) (N-1-E) (N-2-E) (N-6-E) (M-1-E)
7. Count forward and backward from a given number between 1 and 10 (N-3-E)
8. Compare sets containing 20 or fewer objects using the words *same/different* and *more/less/greater/fewer* (N-3-E) (N-1-E)
9. Use concrete objects to model simple real-life addition and subtraction problems (N-4-E)
10. Use operational vocabulary (*add, subtract, join, remove, take away, put together*) to explore sets of objects (N-5-E)

**Algebra**

11. Use the words *same, different, equal, not equal, greater than, and less than* while using concrete objects for comparative models (A-1-E)
12. Model and act out story problems, physically or with objects, to solve whole number sentences with sums less than or equal to 6 (A-2-E)

**Measurement**

13. Use vocabulary such as: *yesterday, today, tomorrow, hours, weeks*, names of days, names of months; sequence events; and identify calendars and clocks as objects that measure time (M-1-E) (M-2-E) (M-5-E)
14. Measure and estimate length and capacity using non-standard units (e.g., sticks, paper clips, blocks, beans) (M-2-E) (M-3-E)
15. Use comparative and superlative vocabulary in measurement settings (e.g., *longest, shortest, most, hottest, heaviest, biggest*) (M-3-E) (M-1-E) (M-2-E)

**Geometry**

16. Name and identify basic shapes using concrete models (e.g., circles, squares, triangles, rectangles, rhombuses, balls, boxes, cans, cones) (G-2-E) (G-1-E) (G-4-E) (G-5-E)
17. Compare, contrast, and sort objects or shapes according to two attributes (e.g., shape and size, shape and color, thickness and color) (G-2-E)
18. Use words that indicate direction and position of objects and arrange an object in a specified position and orientation (e.g., *between, behind, above*) (G-3-E)
19. Investigate the results of combining shapes (using paper shapes, pattern blocks, tangrams, etc.) (G-3-E) (G-1-E)
20. Draw circles, squares, rectangles, and triangles (G-4-E)

**Data Analysis, Probability, and Discrete Math**

21. Collect and organize concrete data using tally mark charts (D-1-E)
22. Collect and organize data in a simple bar graph using pictures or objects (D-1-E) (D-2-E)
23. Sort, represent, and use information in simple tables and bar/picture graphs (D-2-E) (D-3-E)

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**Patterns, Relations, and Functions**

24. Recognize, copy, name, create, and extend repeating patterns (e.g., ABAB, AABB, ABBA) using concrete objects, shapes, pictures, numbers, and sounds (P-1-E)