

Mathematics
Grade-Level Expectations: Grade 2

Number and Number Relations

1. Model, read, and write place values for numbers through 999 in word, standard, and expanded form (N-1-E)
2. Model the concepts of thirds, fourths, fifths and sixths using regions, sets, and fraction words (e.g., one-third, three-fourths, five-sixths) (N-1-E)
3. Make reasonable estimates of the number of objects in a collection with fewer than 100 objects (N-2-E)
4. Count and write the value of amounts of money up to \$1.00 using ¢ and \$ (N-2-E) (N-6-E) (M-1-E) (M-5-E)
5. Read, write, compare, and order whole numbers through 999 using words, number lines, and models (N-3-E) (N-1-E)
6. From a given number, count forward and backward and count to 100 by 2s (N-3-E) (N-1-E) (N-4-E)
7. Know all basic facts for addition and subtraction and use them to solve real-life problems (N-5-E) (N-6-E) (N-7-E) (N-8-E) (N-9-E)
8. Recognize, select, connect, and use operations, operational words and symbols (+, -) for addition (join, part/part/whole) or subtraction (take away, comparison, missing addend, and set/subset) situations (N-6-E) (N-5-E)
9. Add and subtract 1- and 2-digit numbers (N-6-E) (N-7-E)
10. Round numbers to the nearest 10 or 100 and identify situations in which rounding is appropriate (N-7-E) (N-9-E)
11. Use the concept of one-to-several correspondence to trade single items for a greater quantity of items with unequal value (1 nickel for 5 pennies, 1 dime for 2 nickels) (N-9-E)

Algebra

12. Use number sentences to represent real-life problems involving addition and subtraction (A-1-E) (A-2-E)
13. Find the missing number in an equation involving addition or subtraction (e.g., $\# + 4 = 7$, $8 - \# = 3$) (A-2-E) (N-4-E)

Measurement

14. Measure and appropriately label measures of length and perimeter (i.e., inch, centimeter, foot), capacity (i.e., cup, quart, liter), and weight/mass (i.e., pound, kilogram) (M-1-E)
15. Read a thermometer in degrees Fahrenheit and Celsius and interpret the temperature (M-1-E)
16. Tell time to the nearest 5 minutes, and identify the time one hour before or after a given time (M-1-E) (M-3-E)
17. Select and use appropriate tools and units to measure length, time, capacity, and weight (e.g., scales for pounds and kilograms; rulers for inches and centimeters; measuring containers for cup, quarts, and liters) (M-2-E)
18. Use non-standard units to cover a given region (M-2-E)
19. Estimate length in standard units (inch, foot, and centimeter) (M-3-E)
20. Compare units within the **same** system (inch is shorter than a foot, minute is shorter than an hour, day is shorter than a month, cup holds less than a quart) (M-3-E)

Geometry

21. Compare and contrast 3-dimensional shapes (i.e., sphere, cube, cylinder, cone, prism, pyramid) according to their attributes (e.g., number of faces, shape of faces) (G-2-E)
22. Identify a reduction or enlargement of a given shape (G-2-E)
23. Identify congruent 3-dimensional solids in a variety of positions and orientations (G-3-E) (G-4-E) (G-2-E)

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24. Identify and draw horizontal and vertical line segments (G-5-E)

Data Analysis, Probability, and Discrete Math

- 25. Collect and organize data using observations, surveys, and experiments (D-1-E)
- 26. Construct and read line plots and tables (D-2-E)
- 27. Interpret pictographs in which each picture represents more than one object (D-2-E)
- 28. Generate questions that can be answered by collecting and analyzing data (D-3-E)
- 29. Solve logic problems involving two sets by using elementary set logic (i.e., *and*, *or*, and *is/is not* statements) (D-3-E)

Patterns, Relations, and Functions

- 30. Recognize, extend, create, and explain patterns of addition and subtraction as represented in charts and tables and in varied forms of skip-counting (P-1-E) (P-2-E)
- 31. Recognize, extend, create, and explain patterns that involve simple rotations or size changes with geometric objects (P-1-E) (P-2-E)
- 32. Recognize and apply patterns in problem-solving in other content areas and real-life situations (P-3-E) (N-9-E)