

Math Grade 2

Number Sense, Estimation & Computation

Students will be able to:

- Demonstrate an understanding of numbers and numerals for 0 - 999.
- State addition and subtraction facts to twenty.
- Add and subtract digits from 0 – 999 accurately.
- Understand the inverse relationship between addition and subtraction.
- Demonstrate place value for ones, tens, hundreds, and thousands.
- Use mental strategies to formulate estimates using front-end digits to add and subtract.
- Describe the differences between estimates and actual calculations.
- Identify the use of numbers as labels and measurements.
- Identify and represent common fractions ($\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$) as numbers on the number line.
- Identify the value of all U.S. bills: \$5, \$10, and \$20.
- Find the value of a collection of coins and dollar bills and different ways to represent an amount of money up to \$5 using appropriate notation.

Patterns, Relations and Algebra

Students will be able to:

- Sort, identify, and continue math patterns by attributes.
- State a problem and model relationships using numbers, letters, and shapes (orally, written, visually).
- Demonstrate an understanding of multiple element patterns and sequences (0 - 999).
- Describe and create addition and subtraction number patterns (1, 4, 7... or 25, 23, 21...).
- Skip count to fifty by twos, fives, and tens, starting at any number.
- Write number sentences using +, -, <, =, and / or > to represent mathematical relationships in everyday situations.
- Describe functions related to trading including measurement trades (12 inches equal 1 foot, four cups equal one quart, 18 ounces are greater than 1 pound).

Geometry

Students will be able to:

- Demonstrate an understanding of two-dimensional and three-dimensional shapes including slides, flips, and turns of geometric shapes.
- Recognize congruent shapes.
- Identify symmetry in two-dimensional shapes.
- Predict the results of putting shapes together and taking them apart.
- Relate geometric ideas to numbers such as seeing rows in an array as a model of repeated addition.

Measurement

Students will be able to:

- List the parts of the days (morning, afternoon, evening), days of the week, months, and seasons.
- Select and correctly use the appropriate measurement tools using units of measurement: metric, standard, Celsius, Fahrenheit, digital, and analog.
- Make and use estimates of measurement including time, volume, weight, and area.

Data Analysis, Statistics, and Probability

Students will be able to:

- Organize, classify, represent, and interpret data using tallies, charts, tables, bar graphs, pictographs, and Venn diagrams; interpret the representations.
- Create and explain predictions, comparisons, and calculations.
- Formulate inferences (draw conclusions) and make educated guesses (conjectures) about a situation based on information gained from data.
- Decide which outcomes of experiments are most likely.

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