

At the end of the school year, students will be able to...

GRADE 1

Goal 6 Numbers Sense and Computation

The students will be able to demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios, and proportions.

STANDARD A

The students will be able to demonstrate knowledge and use of numbers and their representations in a broad range of theoretical and practical settings.

- _____ Count, read, write, order, and model numerals 0-100.
- _____ Identify ordinals first through twentieth.
- _____ Identify halves, fourths, and thirds using physical models.
- _____ Identify place value through three-digits.
- _____ Identify basic mathematical vocabulary.
- _____ Explore negative numbers.
- _____ Demonstrate use of odd/even numbers.
- _____ Identify fractional parts; whole, halves, thirds, fourths, fifths, sixths, and eighths with and without physical models.

STANDARD B

The students will be able to investigate, represent, and solve problems using number facts, operations (addition, subtraction, multiplication, division) and their properties, algorithms, and relationships.

- _____ Create and identify real-life problems and use appropriate addition and subtraction operations in solving (with and without manipulatives).

STANDARD C

The students will be able to compute and estimate using mental mathematics, paper-and-pencil methods, calculators, and computers.

- _____ Add and subtract 0 – 18.
- _____ Perform two-digit adding and subtracting without renaming/trading.
- _____ Perform two-digit adding and subtracting with one trade.
- _____ Skip count by 10, 5, 3, and 2.
- _____ Explore multiplication and division.
- _____ Demonstrate mental math strategies.
- _____ Use problem solving and critical thinking skills.
- _____ Demonstrate estimation strategies with number and measurement.

STANDARD D

The students will be able to solve problems using comparison of quantities, ratios, proportions, and percents.

- _____ Use appropriate terminology in making mathematical comparisons (ratios).
- _____ Demonstrate one-to-one correspondence of objects.

Goal 7 Measurement

The students will be able to estimate, make, and use measurements of objects, quantities, and relationships and determine acceptable levels of accuracy.

STANDARD A

The students will be able to measure and compare quantities using appropriate units, instruments, and methods.

- _____ Measure length and distance using standard and non-standard measurement.
- _____ Explore weight, area, and volume using non-standard measurement.
- _____ Express values of different amount of coins up to \$1.00.
- _____ Use time measurements, hour, half-hour, five-minute, and one-minute intervals and use calendar terms.
- _____ Read temperatures to the nearest degree from Fahrenheit thermometer.

STANDARD B

The students will be able to estimate measurements and determine acceptable levels of accuracy.

- _____ Describe and use estimation strategies with numbers and measurement.

STANDARD C

The students will be able to select and use appropriate technology, instruments and formulas to solve problems, interpret results, and communicate findings.

- _____ Explore perimeter and area using standard and non-standard instruments.

Goal 8 Algebra

The students will be able to use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems, and predict results.

STANDARD A

The students will be able to describe numerical relationships using variables and patterns.

- _____ Demonstrate one-to-one correspondence of objects.
- _____ Demonstrate use of mathematical symbols of +, -, =, >, and <.
- _____ Describe, copy, and extend simple geometric and numeric patterns.
- _____ Find missing terms in equations: $___ + 3 = 10$.

STANDARD B

The students will be able to interpret and describe numerical relationships using tables, graphs, and symbols.

- _____ Sort and classify physical objects into sets.

STANDARD C

The students will be able to solve problems using systems of numbers and their properties.

- _____ Use problem solving and critical thinking skills.

STANDARD D

The students will be able to use algebraic concepts and procedures to represent and solve problems.

- _____ Write equations.

Goal 9 Geometry

The students will be able to use geometric methods to analyze, categorize, and draw conclusions about points, lines, planes, and space.

STANDARD A

The students will be able to demonstrate and apply geometric concepts involving points, lines, planes, and space.

- _____ Identify the basic geometric shapes: circle, square, triangle, rectangle, explore cubes, cones, spheres, cylinders, and pyramids.
- _____ Investigate and predict results of putting together and taking apart 2-dimensional shapes.

STANDARD B

The students will be able to identify, describe, classify, and compare relationships using points, lines, planes, and solids.

- _____ Identify spatial locations of objects using appropriate terminology.
- _____ Explore symmetry and congruence.

STANDARD C

The students will be able to construct convincing arguments and proofs to solve problems.

Goal 10 Data Collection and Statistical Analysis

The students will be able to collect, organize, and analyze data using statistical methods; predict results; and interpret uncertainty using concepts of probability.

STANDARD A

The students will be able to organize, describe, and make predictions from existing data.

- _____ Read and interpret simple graphs: bar and picture.

STANDARD B

The students will be able to formulate questions, design data collection methods, gather and analyze data, and communicate findings.

STANDARD C

The students will be able to determine, describe, and apply the probabilities of events.

- _____ Explore concepts of chance.