

At the end of the school year, students will be able to... (No Calculators Allowed)

GOAL 6 Numbers Sense and Computation

Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions.

STANDARD A

Demonstrate knowledge and use of numbers and their representations in a broad range of theoretical and practical settings.

Representing and Ordering

- ___ Read numerals from 1 to 20.
- ___ Count from 1 to 100.
- ___ Count objects from 1 to 10.
- ___ Skip count by 2, 5, and 10.
- ___ Identify ordinals first through fifth.
- ___ Compare sets using more, less, and same (equal).
- ___ Compare and contrast sizes.
- ___ Identify whole and half with physical models.

STANDARD B

Investigate, represent and solve problems using number facts, operations (addition, subtraction, multiplication and division) and their properties, algorithms, and relationships.

STANDARD C

Compute and estimate using mental mathematics, paper-and-pencil methods, calculators and computers.

Computation, Operations, Estimation, and Properties

- ___ Solve problems through number stories.
- ___ Model basic addition/subtraction facts using manipulatives.

GOAL 7 Measurement

Estimate, make and use measurements of objects, quantities and relationships and determine acceptable levels of accuracy.

STANDARD A

Measure and compare quantities using appropriate units, instruments, and methods.

STANDARD B

Estimate measurements and determine acceptable levels of accuracy.

STANDARD C

Select and use appropriate technology, instruments and formulas to solve problems, interpret results and communicate findings.

Units, Tools, Estimation, and Applications

- ___ Use non-standard units to measure length and weight.
- ___ Identify penny nickel, dime and quarter.
- ___ Identify units of time, e.g., hour, day, week, month, year.
- ___ Estimate numbers of objects.
- ___ Incorporate estimating and measuring using common tools during work or play.

GOAL 8 Algebra

Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results.

STANDARD A

Describe numerical relationships using variables and patterns.

Representations, Patterns, and Expressions

- ___ Identify and complete patterns with physical models.
- ___ Match sets of objects and numbers 0 – 10, including one-to-one correspondence.

GOAL 9 Geometry

Use geometric methods to analyze, categorize and draw conclusions about points, lines, planes and space.

STANDARD A

Demonstrate and apply geometric concepts involving points, lines, planes and space.

Properties of Single Figures and Coordinate Geometry

- ___ Identify and describe two-dimensional shapes (circles, squares, rectangles, and triangles).
- ___ Describe relative positions in space to describe distance and direction (e.g., ♥ is 2 units above/below ⚙).
- ___ Sort objects based on two or more characteristics.

GOAL 10 Data Collection and Statistical Analysis

Collect, organize and analyze data using statistical methods; predict results; and interpret uncertainty using concepts of probability.

STANDARD A

Organize, describe, and make predictions from existing data.

STANDARD B

Formulate questions, design data collection methods, gather and analyze data and communicate findings.

Data Analysis and Statistics

- ___ Interpret data represented in a pictograph, simple bar graph, and tally chart.
- ___ Complete missing parts of a pictograph, simple bar graph or tally chart for a given set of data.