

Math

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

GOAL 6 Numbers

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.

- _____ Use concepts that include number recognition, counting and one-to-one correspondence.
- _____ Count with understanding and recognize "how many" in sets of objects.

STANDARD B

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

- _____ Solve simple mathematical problems.

STANDARD C

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

- _____ Explore quantity and number.
- _____ Connect numbers to quantities they represent using physical models and representations

STANDARD D

Solve problems using comparisons of quantities, ratios, proportions and percents.

- _____ Make comparisons of quantities.

GOAL 7 Estimation and 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.

- _____ Demonstrate a beginning understanding of measurement using non-standards units and measurement words.
- _____ Construct a sense of time through participation in daily activities.

STANDARD B Estimate measurements and determine acceptable levels of accuracy.

_____ Show understanding of use comparative words

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

_____ Incorporate estimating and measuring activities into play.

GOAL 8 Using Algebraic and Analytical Methods

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.

_____ Sort and classify objects by a variety of properties.

STANDARD B Interpret and describe numerical relationships using tables, graphs and symbols.

_____ Recognize, duplicate and extend simple patterns, such as sequences of sounds, shapes and colors.

_____ Begin to order objects in series or rows.

STANDARD C Solve problems using systems of numbers and their properties.

_____ Participate in situations that involve addition and subtraction using manipulative

STANDARD D Use algebraic concepts and procedures to represent and solve problems.

_____ Describe qualitative change, such as measuring to see who is growing taller.

GOAL 9 Geometric Methods

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.

_____ Recognize geometric shapes and structures in the environment.

STANDARD B

Identify, describe, classify and compare relationships using points, lines, planes and solids.

_____ Find and name locations with simple words such as “near”.

**GOAL 10 Using
Statistical Methods**

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.

_____ Represent data using concrete objects, pictures, and graphs.

_____ Make predictions about what will happen next.

STANDARD B

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

_____ Gather data about themselves and their surroundings.