

## Algebra

### Objective Description

Develop an understanding of the language and symbols of mathematics

Explain the meaning of algebraic symbols, including comparison and operational symbols ( $>$ ,  $<$  or  $=$ )

Relate problem situations to number sentences involving addition and subtraction.

Solve addition and subtraction problems by using data from simple charts, picture graphs, and number sentences.

Solve simple number sentences using concrete objects and trial and error

Use terms all, some, or none

Use variables to represent unknowns

Use ten frames to develop operation sense

Use the associative property of addition

Use the commutative property of addition

Use fact families to develop operation sense

Develop and apply properties of addition

Develop and apply properties of subtraction using models and manipulatives

Demonstrate an understanding of addition using number stories

## Geometry

### Objective Description

Identify symmetry and construct symmetrical plane and solid geometric figures

Classify geometric figures

Identify, describe, and draw hexagons

Combine and separate geometric figures to create new geometric figures

Describe and arrange objects in space in terms of location

Describe and arrange objects in space in terms of position

Draw logical conclusions about geometric patterns

Identify congruence and construct congruent plane and solid geometric figures

Identify and describe properties of plane geometric figures

Identify and describe properties of solid geometric figures

Identify geometric properties that can be measured

Locate points on a line

Identify, describe, and compare geometric figures in the real world

Identify and describe spheres

Describe and arrange objects in space in terms of direction

## Mathematical Processes

### Objective Description

Solve problems by guessing and checking

Solve problems by working backwards

Solve problems by looking for a pattern

Solve problems using mental math

Create, describe, and record a variety of patterns

Explain how to solve a problem

Solve problems using operations

Solve problems using a plan or a model

Solve problems using appropriate numerical representations

Solve problems by selecting the most appropriate method of calculation

Identify and describe the rule for a pattern

Write an equation to solve a problem

Identify the mathematics in everyday situations

Relate informal language to mathematical language and symbols

Solve problems by estimating

## Measurement

### Objective Description

Count collections of like and mixed coins

Estimate a measurement

Measure length using nonstandard units

Measure time to the hour, half-hour, and quarter-hour using analog and digital clocks

Solve real-world problems involving money

Select appropriate units and tools to measure to the degree of accuracy required

Measure length using customary and metric units

Compare lengths and heights of objects

Solve real-world problems involving length

Compare temperatures

Identify correct use of monetary symbols and decimal points

Solve real-world problems involving capacity

Solve real-world problems involving weight/mass

Understand measurable attributes of plane and solid geometric figures

Use concrete and graphic models to find perimeter

## Numeration

### Objective Description

Compare whole numbers

Group, count, order, and sort sets of objects

Identify equivalent representations of mathematical concepts

Recognize a fraction as part of a whole or part of a set

Represent equivalent forms of the same number

Apply understanding of number relationships

Divide regions into equal parts and recognize equal and unequal regions

Apply place value concepts

Represent whole numbers using expanded notation

Understand numbers, ways of representing numbers, relationships among numbers, and number systems

Solve problems with fractions

Order whole numbers

Solve problems with whole numbers

Use numbers to measure

Count back

## Operations

### Objective Description

Add with regrouping

Apply addition in real-world situations

Demonstrate knowledge of basic multiplication facts

Identify a number before or after a given number

Solve addition problems with whole numbers

Subtract by regrouping

Use mental math to solve addition problems

Use the inverse relationship of subtraction and addition

Select and apply addition algorithms

Identify a number 100 more than or 100 less than a number

Use mental math to solve subtraction problems

Use repeated addition to solve multiplication problems

Select and perform computational procedures to solve problems with whole numbers

Use arrays to solve multiplication problems

Solve subtraction problems with whole numbers

Select and apply subtraction algorithms

## Statistics and Probability

### Objective Description

Draw conclusions from data

Make predictions from data

Read and interpret bar graphs

Read and interpret tallies

Represent data with tally marks

Write a title representing the main idea of a graph

Read and interpret pictographs

Represent data with objects

Make inferences and form hypotheses based on data

Collect and record data

Classify and sort data by common attributes

Collect and analyze data related to real-world situations

Describe the concept of probability in relationship to chance and likelihood

Connect data collection concepts to other strands of mathematics

Read and interpret charts and tables