

FIRST GRADE**MATHEMATICS**

Goal 6: Demonstrate a knowledge and sense of numbers and their representations-including basic operations (addition and subtraction), ratios and proportions, by using multiple ways of obtaining exact values and estimates to understand number patterns and their applications.

Learning Standard A	Learning Standard B	Learning Standard D
Demonstrate knowledge and use of numbers and their relations and representations in a broad range of settings from theoretical to practical (develop number sense).	Investigate, represent and solve problems using number facts, operations (addition and subtraction), and relationships.	Solve problems involving the comparisons of quantities using ratios and proportions.
<ul style="list-style-type: none"> • Rote counting by 1's, 5's, 10's to 130 • Rote counting by 2's to 50 • Recognizing numerals to 130 • Writing numerals to 130 by 1's • Counting back from 30 • Counting from varying beginning and ending numbers • 1 to 1 correspondence 	<ul style="list-style-type: none"> • Creating and telling number stories • Transforming simple stories into symbols (+, -, =) • Addition and subtraction facts to and from 6 (rote recall) • Solving addition and subtraction problems to and from 10 • Constructing fact families to 6 ($4+2=6$; $2+4=6$; $6-4=2$; $6-2=4$) 	<ul style="list-style-type: none"> • Comparing sets of objects for more than, less than, equal

Goal 7: Make, use and estimate measurements of objects, amounts, and relationships.

Learning Standard A
Measure and compare quantities using appropriate units, instruments, and methods.
<ul style="list-style-type: none"> • Telling time to the hour • Reciting the days of the week in order • Comparing objects using a balance scale • Naming pennies, nickels, dimes, quarters • Identifying value of pennies, nickels, dimes, quarters

Goal 8: Identify and describe patterns and relationships in actual data, as well as solve problems and predict results using algebraic methods and symbols, tables, graphs, calculators and computers.

Learning Standard B
Analyze and describe numerical relationships using a variety of representations.
<ul style="list-style-type: none"> • Representing quantities using manipulatives, symbols, words, and pictures

Goal 9: Analyze, categorize and draw conclusions about objects and spatial relationships using geometric methods and drawings, sketches, graphs, models, symbols, calculators, and computers.

Learning Standard A
Demonstrate and apply basic geometric concepts in two-and three-dimensions.
<ul style="list-style-type: none"> • Naming basic shapes (square, circle, triangle, rectangle)