EARLY CHILDHOOD MATHEMATICS

Goal 6: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, and ratios and proportions.

Learning Standard A	Learning Standard B	Learning Standard C	Learning Standard D
Demonstrate knowledge and use of numbers and their representations in a broad range of theoretical and practical settings.	Investigate, represent and solve problems using number facts, operations (addition, subtraction, multiplication, division) and their properties, algorithms and relationships.	Compute and estimate using mental mathematics, paper-and-pencil methods, calculators and computers.	Solve problems using comparison of quantities, ratios, proportions and percents.
6.A.ECa. Use concepts that include number recognition, counting and one-to-one correspondence.	6.B.EC. Solve simple mathematical problems.	6.C.Eca. Explore quantity and number.	6.D.EC. Make comparisons of quantities.
6.A.Ecb. Count with understanding and recognize “how many” in sets of objects.		6.C.Ecb. Connect numbers to quantities they represent using physical models and representations.	

State Goal 7: Estimate, make and use measurements of objects, quantities and relationships and determine acceptable levels of accuracy.

Learning Standard A	Learning Standard B	Learning Standard C
Measure and compare quantities using appropriate units, instruments and methods.	Estimate measurements and determine acceptable levels of accuracy.	Select and use appropriate technology, instruments and formulas to solve problems, interpret results and communicate findings.
7.A.Eca. Demonstrate a beginning understanding of measurement using non-standard units and measurement words.	7.B.EC. Show understanding of and use comparative words.	7.C.EC. Incorporate estimating and measuring activities into play.
7.A.Ecb. Construct a sense of time through participation in daily activities.		

State Goal 8: Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results.

Learning Standard A	Learning Standard B	Learning Standard C	Learning Standard D
Describe numerical relationships using variables and patterns.	Interpret and describe numerical relationships using tables, graphs and symbols.	Solve problems using systems of numbers and their properties.	Use algebraic concepts and procedure to represent and solve problems.
8.A.EC. Sort and classify objects by a variety of properties.	8.B.ECa. Recognize, duplicate and extend simple patterns, such as sequences of sounds, shapes and colors.	8.C.EC. Participate in situations that involve addition and subtraction using manipulatives.	8D.EC. Describe qualitative change, such as measuring to see who is growing taller.
	8.B.Ecb. Begin to order objects in series or rows.		

State Goal 9: Use geometric methods to analyze, categorize and draw conclusions about points, lines, planes and space.

Learning Standard A	Learning Standard B
Demonstrate and apply geometric concepts involving points, lines, planes and space.	Identify, describe, classify and compare relationships using points, lines, planes and solids.
9.A.EC. Recognize geometric shapes and structures in the environment.	9.B.EC. Find and name locations with simple words, such as “near”.

State Goal 10: Collect, organize and analyze data using statistical methods; predict results; and interpret uncertainty using concepts of probability.

Learning Standard A	Learning Standard B
Organize, describe and make predications from existing data.	Formulate questions, design data collection methods, gather and analyze data and communicate findings.
10.A.ECa. Represent data using concrete objects, pictures, and graphs.	10.B.EC. Gather data about themselves and their surroundings.
10.A.Ecb. Make predictions about what will happen next.	