ASD MATHEMATICS STANDARDS
GRADE 1
(Revised 6/06)

A. Numbers and Operations:

Number Relationships:

1.A.1.M Count, read, and write whole numbers to 100.

1.A.2.M Differentiate between even and odd numbers.

1.A.3.M Compare, order, and group whole numbers to 100.

1.A.4.M Represent equivalent forms of the same whole number up to 20, through the use of physical models, diagrams, and number expressions.

1.A.5.M Count and group objects into tens and ones.

1.A.6.M Identify and order "first" through "tenth" positions.

Operations:

1.A.7.M Demonstrate concretely and explain verbally the concepts of addition and subtraction.

1.A.8.M Use manipulatives to explore different combinations of whole numbers & write the equations that accompany them.

1.A.9.M Demonstrate the inverse relationship between addition and subtraction using fact families.

1.A.10.M Solve addition and subtraction problems with one and two digit numbers without regrouping in vertical and horizontal form.

1.A.11.M Find the sum of three one-digit numbers.

1.A.12.M Define the vocabulary terms "sum", "difference"' "equal", and the meaning of the symbols +, -, =.

1.A.13.M Count by 5's, and 10's to 100.

1.A.14.M Count by 2's to 20.

1.A.15.M Choose the correct operation to solve a problem (+ and -).

1.A.16.M Identify the number that is one more than, one less than a given number.

1.A.17.M Identify the number that is ten more than, ten less than a given number.

Fractions:

1.A.18.M Represent fractions by using models and drawings.

1.A.19.M Compare a whole to fractional parts.

1.A.20.M Divide a whole into fractional parts.

Money:

1.A.21.M Identify the value of coins.

1.A.22.M Determine the total value of a group of like coins up to a total of $1.00.

1.A.23.M Find equal money amounts with different coin combination up to $0.25.

Estimation:

1.A.24.M Round whole numbers to the nearest ten.

1.A.25.M Use estimation strategies in problem solving involving numbers that use the ones and tens places.

1.A.26.M Make reasonable estimates when using large or small numbers.

B. Measurement

1.B.1.M Tell time to the nearest half hour and relate time to events.

1.B.2.M Identify the correct unit of time when given an event lasting a second, minute or hour.

1.B.3.M Demonstrate the ability to locate a specific date on a calendar.

1.B.4.M Select an appropriate unit and/or tool for the attribute being measured.

1.B.5.M Compare the length, weight, and volume of two or more objects by using direct comparison, non-standard and standard units.

1.B.6.M Use direct comparison, non-standard and standard units, to describe the measurements of objects.

1.B.7.M Estimate and measure the approximate length or height of a given set of concrete objects or pictures using non-standard units.

1.B.8.M Find combinations of shapes that fill an area.

C. Geometry

1.C.1.M Name, identify, and describe geometric shapes in two dimensions (circle, square, rectangle, and triangle).

1.C.2.M Name, identify, and describe the following geometric shapes in two dimensions: Pentagon (Awareness)

1.C.3.M Name, identify, and describe geometric shapes in three dimensions (sphere, cube, cylinder, cone, and pyramid).

1.C.4.M Investigate and predict the results of combining geometric shapes.

1.C.5.M Identify symmetrical objects.

D. Algebraic Concepts

1.D.1.M Sort objects and create and describe patterns using the characteristics of number, shape, size, rhythm, or color.

1.D.2.M Describe, extend, and explain ways to get to the next element in simple repeating patterns.

1.D.3.M Determine the missing element in a function table (Addition and subtraction). (Awareness)

1.D.4.M Solve number sentences with operational symbols & expressions.

1.D.5.M Create and describe problem situations that will lead to given number sentences involving addition and subtraction.

1.D.6.M Write and solve number sentences from problem situations that express relationships involving addition and subtraction.

E. Data Analysis and Probability

1.E.1.M Represent and compare data by using pictures, bar graphs, tally charts, and picture graphs using the concepts of largest, smallest, most often and least often.

1.E.2.M Answer questions based on data shown on graphs.

1.E.3.M Sort objects and data by common attributes and describe the categories.

1.E.4.M Determine the likelihood of an event (certain, likely, not likely or impossible).

F. Mathematical Reasoning

1.F.1.M Use appropriate problem solving strategies:

- Act it out
- Draw a picture
- Look for a pattern
- Use logical reasoning

1.F.2.M Use tools and strategies, such as manipulatives, to model problems.

1.F.3.M Estimates and checks that answers are reasonable.

1.F.4.M Explains how a problem was solved.