

Measurement

Measurement is the understanding that objects can be used as tools for non-standard measurement.

Strategies to support measurement for the first 5 years

Guess the length of an object by comparing it with another object. "A book is about ___ paper clips long."

Use words such as longer or shorter (for length) taller or shorter (for height) or heavier or lighter (for weight). The baby is heavier than the doll. The ball is lighter than the desk.

Used with permission from the
South Dakota Resource Network
PO Box 218 ★ Sturgis, SD 57785-0218 ★
Phone: 800-219-6247 ★ Fax: 605-347-5223 ★
www.sdprn.org

Additional information from
<http://www.utdanacenter.org/wamathrevision/>
Washington State's revised K-12 math standards

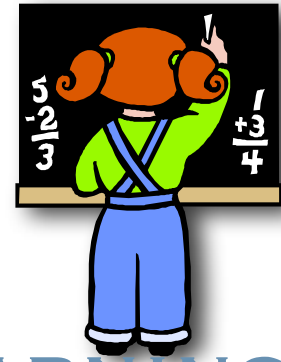
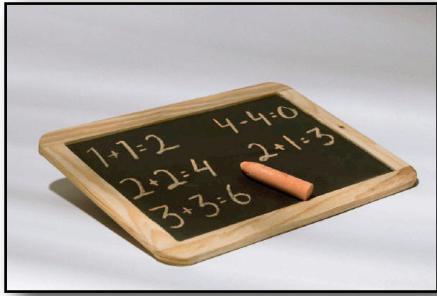
Created by:
Kathy Caley, Beth Heinz, Laurie Murphy,
Suzanne Norring, Melissa Sargent, Judy Schaad, and
Therese Schmidt with support from Bob Koontz,
Principal-Briarcrest Elementary School

A PARENT'S GUIDE TO

KINDERGARTEN MATH READINESS



**BRIARCREST
ELEMENTARY SCHOOL
AND PARENTS WORKING
TOGETHER FOR STUDENT
ACHIEVEMENT**



BUILDING BLOCKS FOR MATH LEARNING

Whole Numbers

Whole numbers include: number concepts, counting, identifying and representing numbers, sequencing, more/less, comparing and how numbers relate to one another

Strategies to support whole number learning for the first 5 years

Count objects using one-to-one correspondence (pennies, beans, buttons, etc.) Show your child how to move objects as you count them.

Draw your child's attention to numbers in the environment (7-11), TV channels, addresses on mailboxes, phone numbers, calendars, etc

Play card and board games that include counting and number identification.

Count forward and backward starting at various points (from 5 - 20, from 15 - 31).

Play the "high-low" game. Say two numbers and ask your child to identify which is higher or lower.

Patterns and Operations

Patterns are repeated cycles or similar relationships. Objects have similarities such as colors, patterns, and stripes and repeat themselves.

Strategies to support patterns and operations for the first 5 years

Show patterns using colored blocks or M&M's - point out red/blue/yellow/red/blue/yellow and ask your child to continue the pattern.

Look for patterns on clothing and in nature.

Identify a missing element in a pattern.
(x * x * x ____)

Manipulates objects to solve simple addition problems to 5 for example: Get 4 blocks, now get 1 more. How many blocks are there all together..... "4 and 1 is 5".

Geometry

Geometry includes: the identification of shapes and 3-D objects, the use of appropriate vocabulary to compare objects and describe their positions.

Strategies to support geometry learning for the first 5 years

Recognize basic shapes such as circles, squares, triangles, and rectangles in the environment.

When driving, challenge your child to identify shapes of road signs.

Identify cubes (sugar cubes), spheres (oranges), cylinders (cans) and cones (ice cream cones) in the environment.

Use comparative words such as biggest/smallest, heaviest/lightest, holds more/less. Arrange family shoes in size by the door.