At - Home Math Activities

Playdoh	
• • Comparison • Measurement • Geometric figures - 2D and 3D • Fractions	• Have your child make snakes from their play-doh. Then form the snakes into the numbers. • Make play-doh snakes and compare the lengths. Put them in order from shortest to longest. • Make different sized balls of play-doh and weigh them to order them from lightest to heaviest • Use play-doh to make 2 dimensional shapes. Combine with straws or toothpicks to show vertices and sides, cut out shapes, or make outlines of the shapes with play-doh snakes • Make 3 dimensional shapes • Use play-doh to create and explore simple fractions and comparisons of size • Use play-doh to mix colors using proportions to get secondary colors!

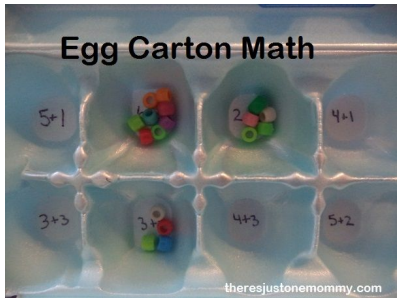
Lego Bricks

• Patterns • Comparison • Measurement • Arithmetic • Place value • Area • Perimeter • Fractions • Symmetry	• Use bricks to model addition and subtraction problems. • Use brick stacks to compare the magnitude of numbers • Use stacks of same-size bricks to measure how tall something is. • Use bricks to investigate the area and perimeter of squares, rectangles and irregular shapes • Explore volume using bricks. • Find the value of square numbers by building squares and counting the pips • Create symmetry designs • Compose and decompose numbers by finding all of the ways to use 2 colors to make a collection of bricks • Explore fraction concepts • Use place value with bundles of tens and ones to add and subtract numbers

Egg Carton or Muffin Pan, with Beads, dried beans, or small toys

- Counting
- Number composition
- Multiplication
- Division
- Base 10
- Fractions

- Write the numbers in each section and children can count beans showing that number in each section.
- Cut one section off the egg carton to make a ten frame. Use any small object to represent numbers in the ten frame - compose to make addition sentences.
- Use a muffin pan with paper liners or a small piece of paper with a number at the bottom. Have your child count out the correct number of objects to place in each cup. Mixing up the order will increase the difficulty!
- Use muffin tins to write 2-digit numbers and have children build the numbers with coins (dimes and pennies to start - then bring in nickels and quarters)
- Use the tins as arrays to show multiplication or division
- Use the tins as equal groups to show multiplication or division



Measuring Cups

- Ordering Fractions
- Comparing Volume
- Unit Conversions
- Fraction Equivalents

- Use stackable measuring cups to demonstrate the ordering of ⅛, ¼, ⅓, ½, ⅔, ¾, and 1
- Use the measuring cups and water to have children measure fractional equivalents (for example: ¼ + ¼ = ½)
- Have children use the measuring cups to convert between ounces, cups and pints and determine equivalent amounts
- Predict how many ounces a container will hold.
- Have students predict what holds more liquid - two types of containers (one that is short and wide, and another that is taller and thinner)
- Have your child help determine the amount of each ingredient is needed to double a recipe, or to cut a recipe in half.

Anything in your house or yard

- Geometry Concepts
- Shape Identification
- Percentage
- Estimation
- Fractions

- Have your children go on a scavenger hunt in your home or yard to find geometric shapes (2-dimensional and 3-dimensional), examples of parallel lines, perpendicular lines, angles, etc. Make a list and see how many things they can find. They can write them down, take a picture, or tell you about them.
- Have your children look for things that show symmetry. They can describe them or write about them.
- Look through old photographs - see what math concepts are there! How many leaves are on the plant? What patterns are there in the leaves? What symmetry do you see in plants and flowers? Do all of the clusters of leaves grow in the same way? Why do you think that happens?
- Use packaged bags of salad or anything that has a mixture to see what fraction of the total each item is. What fraction of the salad bag is spinach? What fraction of *m & m* s are red? What fraction of the *Froot Loops* are yellow?
- When making orange juice (or any other frozen concentrate juice) how many total ounces will there be? What fraction of the whole is the frozen concentrate? What would happen if you use too much water? What would happen if you use too little water? (Ratio and proportion)