Kindergarten Math Activities for Home

Measurement Topic	 At home, your child can . . .
Counting and Cardinality	✓ count items in the house such as toys, books, or cookies. ✓ move and count (e.g. jumping jacks, bouncing balls, etc.). ✓ sort snacks (e.g. by size, shape, color, etc.). ✓ put objects into groups to count and compare how many are in each group (e.g. forks and spoons, shoes, etc.). ✓ draw a picture and count groups of items in the picture (e.g. How many family members? toys? pets? flowers?). ✓ identify patterns in the environment (e.g. clothing, music, decorations, packages). ✓ create patterns using toys, pictures, words, or movements. ✓ describe patterns by their repeating unit (e.g. AB, ABB, ABC). ✓ copy and extend patterns created by someone else. ✓ create a pattern, count the units of the pattern, and record the number. ✓ count from 1 to 100. ✓ practice using numbers by: o counting objects (e.g. windows, doors). o drawing a picture to show how many were counted. o writing the numeral to show how many. o counting two different sets of objects and comparing the amounts. ✓ trace a shoe or hand. Estimate how many items (e.g. pennies, pasta) will cover the space. Write the numeral that tells how many. ✓ count up from a given number other than 1 (e.g. count up from 6: 6, 7, 8 , 9, 10…). Try counting up from numbers greater than 30. ✓ use objects (e.g. plates, utensils, crayons) to show quantities through 10. ✓ line up toys and then tell which toy is first, next or last. Explain why. ✓ draw a picture of family members in a line and tell the position of each person (Who is first? next? last?). ✓ count by 10s through 100. ✓ sort coins into pennies, nickels, and dimes. Then count how many of each coin. ✓ play "store". Label prices on objects (19¢ or less) and show the coins needed to purchase each object.
Measurement and Data	✓ create a yes/no question to ask others (e.g. Do you like pizza? Do you have a pet?); record and analyze data collected. ✓ organize objects (e.g. shoes, hair accessories, toys) by attributes and explain the sorting rule. ✓ collect daily weather data and organize the data in a chart. ✓ choose a household object (e.g. cereal box) and explain how it can be measured (e.g. height, length, weight). ✓ compare the measurements of two objects using math vocabulary (longer than, shorter than, lighter, heavier). ✓ use pennies as a non-standard unit of measurement to measure the length of objects. Choose a new non-standard unit of measurement such as blocks or spoons to measure the length of the objects. (Remember that non-standard units of measurement need to be lined up end to end.) ✓ use a shoe and find objects that are longer and shorter than the shoe. Make a chart to record the results. Then try finding objects that are lighter or heavier than the shoe. ✓ identify where, when, and why objects are weighed. ✓ compare the weight of two objects when holding one object in each hand.

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Geometry	✓ describe positions of objects in the house. ✓ sort objects to the top, middle, or bottom of shelves (e.g. in the pantry, refrigerator, bookshelf). ✓ play a game following positional directions to place a stuffed animal in different locations (e.g. above the book, between the chair and table). ✓ describe the shape of objects (e.g. The door is a rectangle.). ✓ use sticks/straws and play dough/clay to make shapes. ✓ describe the shapes of food when eating. ✓ create a picture by cutting out circles, triangles, squares, and rectangles. ✓ cut out pictures from a magazine or sale advertisement and sort by shape. ✓ collect items and sort them into groups of 2D or 3D shapes. Explain the placement of each item.
Operations and Algebraic Thinking	✓ make a tower of objects (e.g. Legos, blocks, cans). Break the tower into two parts. Tell how many are in each part and then how many there are altogether. ✓ show ways to make a number by: o drawing a picture of boys and girls to show different combinations of 5. Repeat this for other numbers through 10. o using small toys to show ways to make a group of 5. Repeat this for other numbers through 10. ✓ use stuffed animals to act out a story problem (e.g. There are 3 teddy bears at the park. Then 1 went home. How many are still at the park?). ✓ use flash cards, playing cards, or dice to solve basic addition and subtraction facts within 5, building knowledge toward memory. ✓ create and solve story problems about the neighborhood (e.g. There are 3 kids at the park. Then 2 more kids come to the park. How many kids are at the park?). ✓ solve basic addition and subtraction facts within 5, from memory by: o making and using flash cards. o using sidewalk chalk to write and solve equations.
Number and Operations in Base Ten	✓ make a number 11 through 19 by using straws or sticks to show a group of ten and some more ones. Explain how straws or sticks are organized. ✓ play the game "What Number Am I?" Create a number (11 through 19) using straws or sticks. Then write the number shown with the sticks or straws. Take turns creating the number.