First Grade Math Activities for Home

Measurement Topic	 At home, your child can . . .
Number and Operations in Base Ten	✓ count collections of objects (pennies, snacks, street signs, etc.). ✓ represent numbers 1-120 using words, numerals, pictures, and objects. Two examples are shown below. ✓ organize a collection of up to 120 objects into groups of ten and skip count by ten. ✓ play a collaborative number game! Identify a number that is one more/one less and ten more/ten less than a number given by a family member or friend. ✓ count by tens up to a given multiple of 10 (30, 40, 50, etc.) while doing jumping jacks, skipping, clapping, singing, etc. ✓ choose a 2-digit number. Starting with that number, do jumping jacks while adding 10 with each jump. ✓ engage in a math discussion. Roll a number cube three times. Use the first two numbers to build a 2-digit number and use the third number as the addend. Discuss whether or not composing a ten is necessary when solving the problem. ✓ play a mystery equation game! Write five 2-digit numbers on pieces of paper and put them in a bag. Then write the numbers ✓ 1-9 on individual slips of paper and put them in a second bag. Choose a number from each bag and write an addition equation using the numbers. Then solve the problem using a written method and verbal explanation.
Operations and Algebraic Thinking	✓ play a collaborative number game! Split a set of objects into two groups. Put the piles back together and split the pile again in a different way. Repeat until all possible combinations are found. ✓ draw a number line and count on and back from a given number. ✓ count by 2's, 5's, and 10's to 120. Consider using objects such as beans, pennies, etc. to support counting. ✓ play an addition game to practice adding. Collect a small pile of objects (cereal, pennies, toys, etc.). Split the objects into three groups. Say or write an equation to represent the groupings of objects. For example, "I have 16 beans. I can split the beans into groups of 5, 7, and 4. So, 5+7+4=16." Put the piles back together and split the objects again in a different way. Repeat until all possible combinations are found. ✓ create and solve addition and subtraction word problems about personal interests or everyday life. For example, "I had 8 chicken nuggets on my plate. I ate some and now I have 4 left. How many chicken nuggets did I eat?" ✓ gather a set of fewer than 10 objects (buttons, coins, stuffed animals) and write an addition equation representing the sum of the objects. For example, if 7 objects were selected, a possible equation is 7 = 5 + 2. Then write a related subtraction equation (7 – 2 = 5). Repeat with various amounts of objects.

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Measurement and Data	✓ create a survey question and collect data from friends and family in a tally chart. Examples of survey questions include: o What is your favorite _____? o How do you get home from school? ✓ collect data by sorting objects around the house by category (cereal, toys, clothes, etc.) ✓ interpret (ask and answer questions about) the data. ✓ choose an appropriate non-standard unit (pennies, cereal, footsteps, etc.) and measure the lengths of objects around the house. ✓ discuss the importance of measurement in everyday life. For example, discuss how at the doctor's office, the doctor measures the height, weight, and temperature of a patient. ✓ measure a jump! Mark a starting point on the ground and jump forward and mark the landing point. Select an appropriate non-standard unit and measure the length of the jump. Jump two more times and measure the length of each jump using the same non-standard unit. Compare the three jumps using vocabulary such as "shortest" and "longest." ✓ create an original schedule for a perfect day. Draw clocks to show the times for each event. ✓ write and illustrate an original story about a town where time doesn't exist. Share the story with family members! ✓ draw a clock to show a time that represents a favorite time of day. Share the clock with family members and discuss the importance of that time.
Geometry	✓ go on a 2-dimensional shape scavenger hunt around the house. Draw and label the shapes found. ✓ create an original shape museum! Collect and display ✓ 3-dimensional shapes found around the house in a shape museum. Examples include boxes, cans, balls, etc. ✓ go on a partition mission! Find real world objects that are partitioned into equal parts. Examples include window panes, road ways, dressers, pizza, and sandwiches. ✓ help with laundry! Fold towels into halves and quarters. Discuss the change in shape and size of the towel.