




# Second Grade Math Activities for Home

Measurement Topic	 <u>At home, your child can . . .</u>
<b>Operations and Algebraic Thinking</b>	<ul style="list-style-type: none"> <li>✓ show different strategies to add and subtract numbers from 0-20.</li> <li>✓ use playing cards (1-10) to collaborate with friends or family members to practice adding or subtracting numbers.</li> <li>✓ find odd and even numbers in the environment (ex. at the grocery store, at home, in the neighborhood). Tell why it is an odd or even number.</li> <li>✓ write an addition or subtraction word problem and teach a family member a new strategy to solve it.</li> <li>✓ create word problems with unknowns in all positions using experiences at home.</li> <li>✓ create compare word problems using experiences at home.</li> <li>✓ create a math game:               <ul style="list-style-type: none"> <li>- draw pictures of objects on paper or flash cards up to the number 10.</li> <li>- pick two cards, decide whether to add or subtract, and create a number sentence.</li> <li>- create word problems to match the number sentences.</li> </ul> </li> <li>✓ use small household items (macaroni, cookies, toothpicks, cotton balls, etc.) to make rectangular arrays (a set of objects arranged in equal rows and columns).</li> <li>✓ use playing cards (1-10), dice, etc. to add or subtract numbers by memory.</li> <li>✓</li> </ul>
<b>Number and Operations in Base Ten</b>	<ul style="list-style-type: none"> <li>✓ jump rope while counting forwards and backwards by 1s, 10s, or 100s to show fluency.</li> <li>✓ practice counting by tens from any <b>3-digit</b> number.</li> <li>✓ look at nutrition labels and explain how to compare the different categories.</li> <li>✓ use dice to generate <b>3-digit</b> numbers and discuss place value strategies to make the largest or the smallest number.</li> <li>✓ practice solving addition and subtraction problems using materials found at home (cereal, pasta, beans, popcorn, beads). Determine how to use those materials to compose or decompose a ten (glue a set of 10 Cheerios™ on a popsicle stick to represent a ten).</li> <li>✓ roll two dice to generate 2-digit numbers (if you roll a  and a , you can make the numbers 36 or 63. Then, roll the dice again to make another 2-digit number). Decide whether to add or subtract. Analyze to determine if it is necessary to compose or decompose a ten when solving the problem.</li> <li>✓ gather household items to create and represent addition and subtraction equations (13 toy cars + 12 toy trucks = how many vehicles?)</li> <li>✓ look at the newspaper or online for the sports scores. Write an equation to tell the sum of the points scored or write an equation to tell the difference between the two scores.</li> </ul>

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<b>Measurement and Data</b>	<ul style="list-style-type: none"><li>✓ use chalk, markers, crayons, etc. to draw a number line with equal spacing and use it to solve addition and subtraction problems.</li><li>✓ practice counting combinations of bills and coins that equal the same amount. Explain why the sets are equal.</li><li>✓ practice identifying and counting different coins.</li><li>✓ collect quarters from different states and analyze the differences on each quarter.</li><li>✓ measure the arm span of members of your family and create a line plot.</li><li>✓ use paper clips, safety pins, or Legos to create a measurement tool to measure length of objects. Tell how the measurement tool was used.</li><li>✓ use both digital and analog clocks in the home to tell time.</li><li>✓ practice telling and writing time in different ways (8:45 can also be said as quarter 'til nine, eight forty-five, or forty-five minutes after eight).</li></ul>
<b>Geometry</b>	<ul style="list-style-type: none"><li>✓ look for examples of items in the environment that are partitioned into equal shares. Some examples may be found in your kitchen, in the grocery store, at sporting events, or in magazines.</li><li>✓ look around the community for objects that contain 2-dimensional and 3-dimensional shapes. Discuss the attributes.</li><li>✓ construct shapes using play-dough, clay, toothpicks, pipe cleaners, etc. and identify the attributes.</li><li>✓ find and cut out 2-dimensional shapes (triangles, quadrilaterals, pentagons, and hexagons) from magazines. Put the shapes together to make a picture. Count how many of each shape were in the picture.</li><li>✓ create a geometry riddle for a family member. For example: "I have 4 sides and 4 corners. What shape am I?"</li><li>✓ classify shapes from books, magazines, and the internet as 2-dimensional or 3-dimensional. Explain how to classify the shapes and figures.</li><li>✓ locate a 3-dimensional shape at home. Draw a picture of the shape and label the faces, edges, and vertices.</li></ul>