

Spaghetti and Meatballs for All !

by Marilyn Burns

Parts of the Lesson	Materials Needed
<p>I. Pre-activity: Pasta Graphs Children get a scoop of mixed shapes of pasta, sort them and line them up on their tables to make a physical graph. (Optionally, they can make a bar graph, see sample recording sheet in the appendix.)</p>	<p>I. Pre-activity: Pasta Graphs -big bowl of <u>mixed uncooked pasta</u> in fun shapes like wheels, bowties, ziti, elbows, corkscrews, etc -<u>plastic baggies</u>, <u>masking tape</u> (for names), and $\frac{1}{2}$ <u>cup measuring cup</u> -(optional) photocopies of <u>pasta graph paper</u> so children can make their own bar graphs; <u>colored markers</u> -(optional) <u>a large chart</u> for compiling whole class results (older children)</p>
<p>II. Read the book (Talking points) -How do families behave when they get together? What do you think of the way the husband and wife divided up the work for planning the party? -Model what is happening with the tables and chairs, using post-it notes.</p>	<p>II. Read the book. At least one copy of <u>the book</u>. <u>Eight squares</u> (representing tables) to model what happens at the party. Make chairs out of 32 <u>small post-its</u>, and remove them when the tables get pushed together. <u>Loops of tape</u> for taping down the paper squares, OR (optional) use a flannel board</p>
<p>III. Do the math (Activities) Use Cheez-Its® crackers to make pentomino shapes and record the ones that are found. Discuss area and perimeter of each pentomino shape that is "discovered."</p>	<p>III. For the activities -Big box of <u>Cheez-Its®</u> crackers (which are perfect 1" squares). Each child needs 5, plus extras for eating and/or taking home for their "soup." -several sheets of <u>1" graph paper</u> for each child, to draw pentominoes. -<u>pencils or markers</u> for tracing the shapes onto graph paper. -<u>Chart paper to show all 12 pentominoes.</u></p>
<p>IV. Wrap Up (Debrief) -Today we made graphs of different kinds of pasta. We showed how shapes made with 5 squares can have different perimeters. Thought question: which shapes would fold to make a box? (a cube without a top)</p>	<p>IV. Wrap Up (and take home items) Take home <u>2 baggies</u>: one with pasta and a <u>bouillon packet</u>; another with Cheez-Its® crackers. Give them the <u>pentomino worksheets</u> so they can think about folding boxes, and the <u>recipe</u> for making "soup."</p>

