

Sam Johnson and the Blue Ribbon Quilt, by Lisa Ernst  
(supplemented with Eight Hands Round, by Ann Whitford Paul)

Parts of the Lesson	Materials Needed
<p>I. Pre-Activity (Pre-assessment) Have children color four copies of a quilt pattern. See if they can extend the pattern. Share repeated borders with the group to show variations.</p>	<p>I. Make <u>photocopies of at least three easy quilt patterns</u>. Each child makes at least 4 repetitions of a pattern. <u>Markers</u> for coloring each square using exactly the same colors.</p>
<p>II. Read the Book (Talking points) 1. This is a book about a man who likes to quilt, but the ladies quilting group won't let him join. What do you think about that? 2. Read "Sam..." 3. Ask if anyone noticed the borders on the pages (hard to see from far away). Borders are quilt patterns that are repeated over and over. 4. Briefly show Eight Hands Round and quilts made by sliding a pattern 9 times.</p>	<p>II. Read the book(s). 1. <u>The book "Sam Johnson..."</u> for reading the story. 2. <u>The book "Eight Hands Round,"</u> torn <u>apart</u> so pages can be shared at tables. Explain that this is a paper back book, a reference book, and we bought it to tear apart. Not usually a good idea to tear apart your own books. (You may want several copies of the book so each table gets at least 5-6 pages to use.)</p>
<p>III. Do the Math (Activities) 1. Presenter models slides, turns and flips of a design. 2. Use one mirror to see reflections of a quilt square or to look for lines of symmetry. 3. Use two mirrors on left and right of a quilt square, to see infinite repetitions. 4. Tape two mirrors together so you can make a right angle at one corner of a quilt patch. Compare the reflected design to the quilt shown in book, made by sliding the design. 5. Look at other objects besides quilts. As the angle gets smaller, you see more repetitions.</p>	<p>III. Do math activities: 1. Presenter uses <u>12 pre-made copies of a quilt design (Maple Leaf works well)</u> to show the difference between sliding the design, rotating, and reflecting. 2,3. Each child needs one then two little <u>plastic mirrors approx. 2"x3"</u>. Continue to use <u>pages from Eight Hands Round</u> to see repeated and reflected designs. 4. <u>Small pieces of masking tape</u> to make "folded" mirrors by taping 2 mirrors together. 5. <u>Small objects</u> to place in the angle formed by the folding mirror. (pennies, paper clips, candies, small flowers or leaves, etc).</p>
<p>IV. Wrap Up (Debrief) Ask children what they learned about sliding turning and reflecting a design.</p>	<p>IV. Wrap Up - Take home <u>photocopies of a "quilt sampler"</u> to color and use with mirrors. Remind them to look for other designs in wallpaper, rugs, quilts, etc.</p>