<table>
<thead>
<tr>
<th>Title</th>
<th>Making it Match</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade</td>
<td>6</td>
</tr>
<tr>
<td>Topic</td>
<td>Geometry and Spatial Sense</td>
</tr>
</tbody>
</table>
| Standard, Benchmarks & I can statement | **Hawaii Standard(s) addressed:** **Standard 6:** Geometry and Spatial Sense: TRANSFORMATIONS AND SYMMETRY: Use transformations and symmetry to analyze mathematical situations  
**Benchmark:** MA. 6.6.1: Use line symmetry and rotational symmetry to describe classifications of shapes (e.g., squares have 4 lines of symmetry and 90° rotational symmetry)  
**Common Core Standard:** 4.G.3: Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry.  
8.G.4: Understand that a two-dimensional figure is similar to another if the second can be obtained from the first by a sequence of rotations, reflections, translations, and dilations; given two similar two-dimensional figures, describe a sequence that exhibits the similarity between them.  
**I can** (Benchmark restated): I can use line symmetry and rotational symmetry to describe classifications of shapes. |
| Outcome       | Design a Hawaiian quilt square.                                                |
| Time Recommended: | One 60 minute class period to complete WebQuest exploration  
30-45 additional minutes to complete the product |
| Materials needed: | **Materials:**  
various colored paper, scissors, glue  
**Skills** – Student should know that there is 360° in a full rotation.  
Student should be able to identify 30°, 45°, 60°, 90° and 180° angles.  
**Printer – (optional)** – product explanation sheet can be printed for each student |
| Vocabulary: Hawaiian vocabulary: | Symmetry- -‘Ālikelike  
Line of symmetry – Kaha ‘ālikelike  
Line symmetry – Kaha ‘ālikelike  
Rotational symmetry – ‘Ālikelike wili |
| Differentiation Options: | • For a more simple design, students can fold their paper into fourths instead of eighths. |
| Collaboration Options: | • Students can work through the WQ in pairs  
• Put the student’s quilt squares together to form a class quilt. |
| Homework Options: | • Making and labeling the quilt square can be completed at home.  
• Reflection questions can be completed as homework. |