<table>
<thead>
<tr>
<th>Title</th>
<th>Home Sweet Hale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade</td>
<td>6</td>
</tr>
<tr>
<td>Topic</td>
<td>Measurement</td>
</tr>
</tbody>
</table>
| Standard, Benchmarks & I can statement | **Hawaii Standard(s) addressed:** Standard 4: Measurement: FLUENCY WITH MEASUREMENT: Understand attributes, units, and systems of units in measurement; and develop and use techniques, tools, and formulas for measuring  
**Benchmark:** MA. 6.4.3: Apply strategies and formulas to solve area and perimeter problems involving polygons (e.g., regular hexagons) and complex shapes (i.e., shapes composed of two or more common shapes)  
**Common Core State Standard:** 6.G.1 Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.  
**I Can Statement:** I can apply strategies and formulas to solve area and perimeter problems involving polygons and complex shapes. |
| Outcome       | Design a kaiaulu (community) using complex shapes. |
| Time Recommended: | One 45 minute class period to explore the WebQuest. One 45 minute class period to complete the product. |
| Materials needed: | **Materials** – paper, colored pencils or markers, ruler  
**Skills** – Students should already know how to find the area of parallelograms and triangles.  
**Equipment (beside computer)** – printer – If creating the community on the computer, then students will need to print it. |
| Vocabulary: **Hawaiian vocabulary:** | Polygon  
Complex Shape  
Perimeter  
Area  
Huinalehulehu  
Kinona 'ano  
a 'ana puni  
'ilī |
| Differentiation Options: | • The number of complex shapes required can be adjusted up or down according to student’s ability.  
• The types of shapes required can be adjusted: Simplify by using only rectangles, or challenge students by including half circles.  
• Have students select one hale to design a detailed floor plan for. Then calculate the area and perimeter of each room in the hale. |
| Tips | • **Homework** – Designing the community and completing calculations can be assigned as homework.  
• **Homework** – The calculations of area and perimeter can be completed as homework.  
• **Homework** – The reflection questions can be completed as homework. |
| Other Options | • Students can combine communities to create a large display for the classroom or a bulletin board. |