

<b>Year 10 Mathematics Redecorating</b>	<b>Strand: Measurement, Geometry and Number.</b>
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<b>Key Competencies</b>	<b>The Learning Context</b>
<p>Relating to others.</p> <p>Thinking.</p> <p>Using Language, symbols and text.</p>	<p><b>Redecorating a room:</b></p> <ul style="list-style-type: none"> <li>• In small groups, or as individuals, identify a room that requires redecorating. This could be at home or around the school or workplace.</li> <li>• Students to receive base information about measurement and number information associated with the process to be carried out.</li> <li>• Students are to accurately measure the dimensions of the room and develop a sketch plan with all relevant features.</li> <li>• Carry out the following calculations of areas for: <ul style="list-style-type: none"> <li>- Carpeting.</li> <li>- Wallpapering.</li> <li>- Painting.</li> <li>- Other decorating.</li> </ul> </li> <li>• Research materials and costs based on the measured areas and requirements. Develop a budget to carry out the redecorating.</li> <li>• Produce a design and plan to scale. Computer generated plans or cardboard box model could be incorporated.</li> <li>• Choosing wallpaper/paint, determine colours and carpet type, trying to stay within budget.</li> <li>• Visit retailers as part of the data collection process.</li> <li>• Present the plan and budget to the owner of the room for feedback and possible actions.</li> </ul>
<b>Enterprising Attributes</b>	
<p>Effective communication.</p> <p>Decision making.</p> <p>Problem solving.</p>	
<b>Content</b>	<b>Assessment Ideas</b>
<p><b>Number -</b> Understand operations on fractions, decimals, percentages, and integers.</p> <p><b>Measurement-</b> Select and use appropriate metric units for length, area, volume and capacity.</p>	<ul style="list-style-type: none"> <li>• Group peer assessment.</li> <li>• Accuracy and presentation of plans.</li> <li>• Plus: <ul style="list-style-type: none"> <li>US 8492.</li> <li>US 5241.</li> <li>US 5228.</li> </ul> </li> </ul>