

**Year 10 - Design and Technology - 2022**

**TERM 1**

<b>TIMING</b> Weeks: Ongoing	<b>Topic Title: Ongoing practical.</b> Students complete a series of skill building practical lessons throughout the term.	
	<b>UNIT OVERVIEW</b>	<b>ASSESSMENT</b>
	<ul style="list-style-type: none"> <li>• Experimentation</li> <li>• Realisation of design ideas</li> </ul> <p>Students will also undergo practical skill building sessions throughout the unit of work.</p>	<p><b>Task Number: 1</b></p> <p><b>Nature of Task:</b> Practical</p> <p><b>Percentage: 10%</b></p> <p><b>Reported: Semester 1</b></p> <p><b>Week: Ongoing</b></p>
<b>TIMING</b> Weeks: 11 (T1) – 9 (T2)	<b>Topic Title: Eco Lamp.</b> In this unit, students will undertake research to investigate the need of light pollution as a global issue. They will explore, design and product an Eco Lamp that uses mixed materials and innovative technologies (laser cutting or 3D printing). Students will undertake research and experiment with LED lighting as a possible solution towards a light source.	
	<b>Unit Overview</b>	<b>Assessment</b>
	<ul style="list-style-type: none"> <li>• The concepts of design</li> <li>• Identification of needs and opportunities</li> <li>• Management</li> <li>• Creative and innovative idea-generation</li> <li>• Research and exploration</li> <li>• Communication and presentation techniques</li> <li>• Realisation of design ideas</li> <li>• Evaluating</li> </ul>	<p><b>Task Number: 2</b></p> <p><b>Nature of Task:</b> Written folio and practical</p> <p><b>Percentage: 20%</b></p> <p><b>Week: 10</b></p> <p><b>Reported: Semester 1</b></p>

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TERM 2		
<b>TIMING</b> Weeks: Ongoing	<b>Topic Title: Ongoing Practical.</b> Students complete a series of skill building practical lessons throughout the term.	
	<b>UNIT OVERVIEW</b>	
	<ul style="list-style-type: none"> <li>• Experimentation</li> <li>• Realisation of design ideas</li> </ul> <p>Students will also undergo practical skill building sessions throughout the unit of work.</p>	<p><b>Task Number: 3</b>  <b>Nature of Task:</b>                      Practical  <b>Percentage: 10%</b>  <b>Reported: Semester 2</b>  <b>Week: Ongoing</b></p>
<b>TIMING</b> Weeks: 11 (T1) – 9 (T2)	<b>Topic Title: Information and Communication Technologies - Research task.</b> In this unit, students will analyse and be exposed to a range of Australian designers including Aboriginal and Torres Strait Islanders. They will assess the design processes of individual designers, and how their cultural heritage has influenced their design. Students will undertake and apply their previous content knowledge to this unit and create a group presentation on ONE of the selected designers.	
	<b>Unit Overview</b>	
	<ul style="list-style-type: none"> <li>• The work of past and current designers across a range of settings</li> <li>• Factors affecting a holistic approach to design and production</li> <li>• Influence of design on the individual, society and environments</li> <li>• Ethical and responsible design</li> </ul>	<p><b>Assessment</b></p> <p><b>Task Number: 4</b>  <b>Nature of Task:</b>                      Written report and presentation  <b>Percentage: 15%</b>  <b>Week: 10</b>  <b>Reported: Semester 2</b></p>

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TERM 3		
<b>TIMING</b> Weeks 10 (T2) – 10 (T3)	<b>Topic title- Folio and PSE design – Self Directed.</b> In this unit, student will complete their own self-devised project that fulfils a need or opportunity. Students will produce a folio on their practical project.	
	<b>UNIT OVERVIEW</b>	
	<ul style="list-style-type: none"> <li>• Identification of needs and opportunities</li> <li>• Management</li> <li>• Creative and innovative idea-generation</li> <li>• Research and exploration</li> <li>• Communication and presentation techniques</li> <li>• Realisation of design ideas</li> <li>• Evaluating</li> <li>• Risk management practices</li> </ul>	<b>Task Number:</b> 5  <b>Nature of Task:</b> Folio and product  <b>Percentage:</b> 30%  <b>Week:</b> 10  <b>Reported:</b> Semester 2
TERM 4		
<b>TIMING</b> Weeks: 1-10	<b>Topic title- End of year exam.</b> In this unit, students will undergo a Yearly Examination on all topics from the Stage 5 Design and Technology course. Students will also undergo preparation and cover remaining Stage 5 topics.	
	<b>UNIT OVERVIEW</b>	
	<ul style="list-style-type: none"> <li>• Trends in technology and design</li> <li>• Ethical and responsible design</li> <li>• Innovation</li> <li>• Preferred futures</li> </ul>	<b>UNIT OVERVIEW</b>  <b>Task Number:</b> 6  <b>Nature of Task:</b> Yearly Examination  <b>Percentage:</b> 15%  <b>Week:</b> Term 4, Week 4  <b>Reported:</b> Semester 2