SAMPLE ASSESSMENT OUTLINE

MATERIALS DESIGN AND TECHNOLOGY GENERAL YEAR 11
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### Sample assessment outline
#### Materials Design and Technology – General Year 11

**Unit 1 and Unit 2**

<table>
<thead>
<tr>
<th>Assessment type and weighting</th>
<th>Assessment task weighting</th>
<th>When</th>
<th>Assessment task</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design 25%</td>
<td>7%</td>
<td>Term 1 Weeks 1–3</td>
<td><strong>Task 1 Part A:</strong> Students are to use a design process to design a product for their own use, using all or some recyclable materials.</td>
</tr>
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</table>
|                              | 5%                        | Term 1 Weeks 4–6 | **Task 1 Part B:** Students are to use a design process to prepare drawings, patterns or templates, and then develop a production plan to manufacture the product. **Design fundamentals and skills** 
  - Investigate, devise, evaluate **Use of technology – Skills and techniques** 
  - ICT, portfolio development and communication skills 
  - context appropriate drawings and relevant technical information to produce the final product to demonstrate  
  - workroom/studio terminology appropriate to context 
  - select appropriate materials and calculate the quantities of materials required to complete the project |
|                              | 8%                        | Term 3 Weeks 1–4 | **Task 4 Part A:** Students are to use a design process to design a product using a combination of different materials. Investigate different materials within context and/or from outside the designated context. **Design fundamentals and skills** 
  - investigate, devise, evaluate |
|                              | 5%                        | Term 3 Weeks 5–7 | **Task 4 Part B:** Students are to use a design process to prepare drawings, patterns or templates, and then develop a production plan to manufacture the product. **Use of technology – Skills and techniques** 
  - ICT, portfolio development and communication skills 
  - develop context appropriate drawings and relevant technical information to produce the final product 
  - use workroom/studio terminology appropriate to context 
  - select appropriate materials and calculate the correct amount required to order and purchase materials to complete the project 
  - operate machinery and tools appropriate to context |
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<tr>
<td></td>
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<td>Term 1 Weeks 7–8</td>
<td>Task 2 Part A: Skills development, as per context-specific skills and techniques. Skills development exercises, prior to the production of the proposed product. Daily work log/time sheet to record skills development</td>
</tr>
</tbody>
</table>
| Production 60%                | 5%                        | Term 2 Weeks 9–15 | Task 2 Part B: Safe production methods to produce the product. Document a daily work log/timesheet including record of production with stage photos of production. 
**Use of technology** 
**Skills and techniques** 
- workroom/studio terminology appropriate to context 
- select appropriate materials and calculate the quantities of materials required to complete the project 
- with supervision, operate machinery and tools appropriate to context 
**Safety** 
- correct use of Personal Protective Equipment (PPE) where applicable 
- demonstrate Occupational Safety and Health (OSH) practices appropriate to tasks being undertaken in workshops 
**Production management** 
- production plan 
- ongoing evaluation techniques: diary, journal or portfolio notes and use of photography to record ongoing progress/decision changes made to the project |
|                               | 25%                       | Term 3 Weeks 8–10 | Use of technology 
**Skills and techniques** 
**Task 6:** Manufacture of proposed product 
Safe production methods to produce the product. Document a daily work log/timesheet including record of production with stage photos of production. 
- use workroom/studio terminology appropriate to context 
- select appropriate materials and calculate the correct amount required to order and purchase materials to complete the project 
- operate machinery and tools appropriate to context 
**Safety** 
- correct use of Personal Protective Equipment (PPE) where applicable 
- conduct risk assessment for using specific tools/machinery 
- demonstrate OSH practices appropriate to tasks being undertaken in workshops 
- apply risk management strategies in the workshop/studio 
- recognise need and purpose of Materials Safety Data (MSD) with regard to storage and handling of hazardous substances and hazardous operations appropriate to situation |
<p>|                               | 30%                       | Term 4 Weeks 11–15 |</p>
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<tr>
<td>Response 15%</td>
<td>5%</td>
<td>Term 3 Weeks 2–3</td>
<td><strong>Nature and Properties of materials – as per context</strong>&lt;br&gt;<strong>Task 5:</strong> Collect information and present a report on the nature and properties of materials. This assignment requires students to gather and synthesise information about the physical differences on materials within context.</td>
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<td>2%</td>
<td>Term 2 Week 16</td>
<td><strong>Design fundamentals and skills</strong>&lt;br&gt;Evaluate&lt;br&gt;<strong>Task 1 Part C:</strong> Evaluation of completed product&lt;br&gt;Evaluate finished product by responding to evaluation questions.</td>
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<td>5%</td>
<td>Term 1 Weeks 2–3</td>
<td><strong>Materials in context – as per context</strong>&lt;br&gt;<strong>Task 3:</strong> Research and identify environmental considerations of the three ‘Rs’ – reduce, re-use and recycle&lt;br&gt;This assignment requires students to gather and synthesise information on the topic of: the environmental benefits of the three ‘Rs’ – reduce, re-use and recycle.</td>
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<tr>
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<td>3%</td>
<td>Term 4 Week 16</td>
<td><strong>Design fundamentals and skills</strong>&lt;br&gt;Evaluate&lt;br&gt;<strong>Task 4 Part C:</strong> Evaluation of completed product&lt;br&gt;Evaluate finished product by responding to evaluation questions.</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
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