SAMPLE ASSESSMENT OUTLINE

MATERIALS DESIGN AND TECHNOLOGY
ATAR YEAR 12
### Sample assessment outline

**Materials Design and Technology – ATAR Year 12**

**Unit 3 and Unit 4**

<table>
<thead>
<tr>
<th>Assessment component – weighting for combined mark</th>
<th>Assessment type and weighting</th>
<th>When</th>
<th>Assessment task</th>
</tr>
</thead>
</table>
| Written 50%                                      | Design (written) 40%         | 10%  | Weeks 1–2       | Task 1: Develop a statement of intent or design proposal  
• identify a design problem or situation to be solved and propose client requirements and limitations |
|                                                  |                              | 15%  | Weeks 2–4       | Task 2: Investigate – design proposal  
• target audience/market, demand, niche market design needs, values and trends  
• performance criteria related to needs, values and beliefs of the developer and end user  
• historical, social, cultural and political sources of design inspiration  
• design fundamentals and factors affecting design |
|                                                  |                              | 15%  | Weeks 5–7       | Task 4: Devise and develop concepts  
• apply rapid concept development techniques to generate a variety of design ideas  
• develop concepts through concept drawings, patterns or templates |
|                                                  | Response 20%                 | 10%  | Weeks 4–5       | Task 3: Investigate and report on the nature and properties of materials  
• research and identify the nature and properties of materials suitable for the development of a solution: as per context syllabus content dot points |
|                                                  |                              | 5%   | Weeks 10–13     | Task 9: Research materials in context as per context syllabus content dot points |
|                                                  |                              | 5%   | Weeks 1–2       | Task 11: Research materials in context as per context syllabus content dot points |
| Written examination 40%                        |                              | 15%  | Examination week | Task 10: Semester 1 Written examination – a representative sample of the syllabus content from Semester 1 – using a modified examination design brief from the syllabus – length two and a half hours |
|                                                  |                              | 25%  | Examination week | Task 14: Semester 2 Written examination – a representative sample of the syllabus content from Unit 3 and Unit 4 – using a modified examination design brief from the syllabus – length two and a half hours |

**Combined mark**

- 100%
<table>
<thead>
<tr>
<th>Assessment component – weighting for combined mark</th>
<th>Assessment type and weighting (from syllabus)</th>
<th>Assessment task weighting</th>
<th>When</th>
<th>Assessment task</th>
</tr>
</thead>
</table>
| Practical 50%                                     | Design (practical) 30%                       | 10%                       | Semester 1 Week 6–7 | Task 5: Devise solution  
- develop a solution through working drawings, patterns or templates |
|                                                 |                                             | 10%                       | Semester 1 Week 7–8 | Task 6: Presentation drawing of proposed solution  
- colour-rendered pictorial 3D drawing, either CAD or hand drawn |
|                                                 |                                             | 10%                       | Semester 1 Week 9   | Task 7: Production management plan  
- materials list  
- estimated and actual costing for all materials/components  
- production plan, including time line |
| Production 50%                                    |                                             | 10%                       | Semester 1 Week 10–13 | Task 8: Pre-production skills  
- task/s to revise and demonstrate safe working practices, and develop practical hand and machine skills through modelling, prototype or toile making |
| Final Product evaluation 20%                      |                                             | 10%                       | Semester 2 Week 10–11 | Task 12: Production management  
- manage production processes independently  
  - maintain a production plan in order to manage processes and meet time constraints  
  - adapt planned actions, equipment and resources to complete production  
  - apply production techniques that reduce material wastage  
  - consider client feedback, and modify production processes accordingly  
  - document and record changes to materials lists and/or changes to actual cost of materials  
  - diary, journal and portfolio note entries, including  
    - ongoing evaluation of production processes and techniques  
    - use of photography and notes to record ongoing progress/decision changes made to the project |
|                                                 |                                             | 10%                       | Semester 2 Week 12   | Task 13 Part A: Practical final product evaluation  
- evaluation of design and production processes and techniques  
- evaluation of completed product; written report on, and photographs, of completed product |
|                                                 |                                             | 100%                      | 100%                 | Task 13 Part B: Portfolio presentation and final product presentation  
- product evaluation against design brief, initial design and performance criteria related to needs, values and beliefs of the developer and end user  
- presentation, with evaluation report, to display the quality of the final product  
- portfolio presentation with critical record of design and production processes, and finished product in relation to the design brief, including photographic evidence of the details of the finished product |