**Sample Assessment Outline**

Materials Design and Technology

ATAR Year 12

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Sample assessment outline

Materials Design and Technology – ATAR Year 12

Unit 3 and Unit 4

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Assessment component – weighting for combined mark** | **Assessment type  and weighting  (from syllabus)** | **Assessment**  **task**  **weighting** | **When** | **Assessment task** |
| Written  50% | Design  (written)  40% | 10% | Semester 1  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% | Semester 1  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% | Semester 1  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% | Semester 1  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% | Semester 1  Weeks 10–13 | Task 9: Research materials in context as per context syllabus content dot points |
| 5% | Semester 2  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 |
|  | 100% | 100% |  |  |

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| --- | --- | --- | --- | --- |
| **Assessment component –weighting for combined mark** | **Assessment type  and weighting  (from syllabus)** | **Assessment**  **task**  **weighting** | **When** | **Assessment task** |
| 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 managment 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 |
| 40% | Semester 2  Week 1–9 | **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 |
| Final Product evaluation  20% | 10% | Semester 2  Week 10–11 | **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 |
| 10% | Semester 2  Week 12 | **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 |
|  | 100% | 100% |  |  |