**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** |
| Written50% | Design(written)40% | 10% | Semester 1Weeks 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 1Weeks 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 1Weeks 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
 |
| Response20% | 10% | Semester 1Weeks 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 1Weeks 10–13 | Task 9: Research materials in context as per context syllabus content dot points |
| 5% | Semester 2Weeks 1–2 | Task 11: Research materials in context as per context syllabus content dot points |
| Written examination40% | 15% | Examinationweek | 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% | Examinationweek | 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% |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Assessment component –weighting for combined mark** | **Assessment type and weighting (from syllabus)** | **Assessment****task****weighting** | **When** | **Assessment task** |
| Practical50% | Design(practical)30% | 10% | Semester 1Week 6–7 | Task 5: Devise solution* develop a solution through working drawings, patterns or templates
 |
| 10% | Semester 1Week 7–8 | **Task 6: Presentation drawing of proposed solution** – colour-rendered pictorial 3D drawing, either CAD or hand drawn  |
| 10% | Semester 1Week 9 | **Task 7:** **Production managment plan** * materials list
* estimated and actual costing for all materials/components
* production plan, including time line
 |
| Production50% | 10% | Semester 1Week 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 2Week 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 evaluation20% | 10% | Semester 2Week 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 2Week 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% |  |  |