**Sample Assessment Outline**

Materials Design and Technology

General Year 12

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Sample assessment outline

Materials Design and Technology – General Year 12

Unit 3 and Unit 4

| **Assessment type and weighting** | **Assessment task weighting**  | **When/duration** | **Assessment task** |
| --- | --- | --- | --- |
| Design(Practical portfolio)25% | 5% | Semester 1Weeks 1–2 | **Task 1:** Design project one Investigate and develop a design portfolio to include:* statement of intent
* needs, values and beliefs of the designer/developer
* sources of design inspiration
* performance criteria for products
* application of design fundamentals and factors affecting design
 |
| 5% | Semester 1Weeks 5–7 | **Task 3:** Design project one – devise a solution through concept drawings, working drawings, patterns or templates. Present, in the design portfolio:* annotated, orthographic concept drawings, either CAD or hand-drawn
* working drawings – orthogonal drawings
* drawing of proposed solution – rendered pictorial 3D drawing, either CAD or hand-drawn
* estimated production plan on a timeline
* lists of materials, parts and components and costing/ordering
 |
| 5% | Semester 1Weeks 15–16 | **Task 7:** Design project two – apply a design processDetermine design brief and statement of intentInvestigate and develop ideas from:* needs, values and beliefs of the designer/developer
* needs, values and beliefs of the client/target audience/market
* performance criteria related to needs, values and beliefs of the end user
* application of design fundamentals and factors affecting design
 |
| 10% | Semester 2Weeks 3–5 | **Task 9:** Devise a solution to project two – developing a solution through concept drawings, working drawings, patterns or templates. Present:* investigated context materials as listed in Unit 4
* annotated pictorial drawings of ideas to a final drawn proposal including:
	+ annotated orthographic concept drawings, either CAD or hand-drawn
* working drawings – detailed orthogonal drawings with lists of materials, parts and components
* production plan on a timeline
 |

| **Assessment type and weighting** | **Assessment task weighting**  | **When/duration** | **Assessment task** |
| --- | --- | --- | --- |
| Production(Practical)50% | 5% | Semester 1Weeks 7–8 | **Task 4:** Pre-production skillsDevelop production skills; apply safety and practice task/s to develop practical hand and machine skills through producing a model, prototype or toile  |
| 20% | Semester 1Weeks 9–14 | **Task 5:** Production of proposed project one – manufacture of proposed product; use prepared production plan, materials and available equipment; record progress in design portfolio |
| 25% | Semester 2Weeks 6–11 | **Task 10:** Production of proposed project two – manufacture of proposed product; use prepared production plan, materials and available equipment; record progress in design portfolio |
| Response(Written)10% | 3% | Semester 1Weeks 3–4 | **Task 2:** Investigate materials and production methods. Research materials and processes suitable for the development of a solution, and report on:* nature and properties of materials
* materials in context
 |
| 2% | Semester 1Week 14 | **Task 6:** Evaluation of completed project one * complete a written report on, and provide photographs of, the completed product
 |
| 3% | Semester 2Weeks 1–2 | **Task 8:** Investigate materials * Research and report on materials and recycling methods for different materials; recycling methods and processes
 |
| 2% | Semester 2Weeks 11–12 | **Task 11:** Evaluation of completed project two* complete a written report on, and provide photographs of, the completed product
 |
| Externally set task15% | 15% | Semester 1Week 13 | **Externally set task**A written task or item or set of items of 50 minutes duration developed by the School Curriculum and Standards Authority based on the content from Unit 3 and administered by the school |
| Total | 100% |  |  |