**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 1  Weeks 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 1  Weeks 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 1  Weeks 15–16 | **Task 7:** Design project two – apply a design process  Determine design brief and statement of intent  Investigate 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 2  Weeks 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 1  Weeks 7–8 | | **Task 4:** Pre-production skills  Develop production skills; apply safety and practice task/s to develop practical hand and machine skills through producing a model, prototype or toile |
| 20% | Semester 1  Weeks 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 2  Weeks 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 1  Weeks 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 1  Week 14 | | **Task 6:** Evaluation of completed project one   * complete a written report on, and provide photographs of, the completed product |
| 3% | Semester 2  Weeks 1–2 | | **Task 8:** Investigate materials   * Research and report on materials and recycling methods for different materials; recycling methods and processes |
| 2% | Semester 2  Weeks 11–12 | | **Task 11:** Evaluation of completed project two   * complete a written report on, and provide photographs of, the completed product |
| Externally  set task  15% | 15% | Semester 1  Week 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% |  | |  |