



## SAMPLE ASSESSMENT OUTLINE

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**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	<p><b>Task 1:</b> Design project one Investigate and develop a design portfolio to include:</p> <ul style="list-style-type: none"> <li>• statement of intent</li> <li>• needs, values and beliefs of the designer/developer</li> <li>• sources of design inspiration</li> <li>• performance criteria for products</li> <li>• application of design fundamentals and factors affecting design</li> </ul>
	5%	Semester 1 Weeks 5–7	<p><b>Task 3:</b> Design project one – devise a solution through concept drawings, working drawings, patterns or templates. Present, in the design portfolio:</p> <ul style="list-style-type: none"> <li>• annotated, orthographic concept drawings, either CAD or hand-drawn</li> <li>• working drawings – orthogonal drawings</li> <li>• drawing of proposed solution – rendered pictorial 3D drawing, either CAD or hand-drawn</li> <li>• estimated production plan on a timeline</li> <li>• lists of materials, parts and components and costing/ordering</li> </ul>
	5%	Semester 1 Weeks 15–16	<p><b>Task 7:</b> Design project two – apply a design process Determine design brief and statement of intent Investigate and develop ideas from:</p> <ul style="list-style-type: none"> <li>• needs, values and beliefs of the designer/developer</li> <li>• needs, values and beliefs of the client/target audience/market</li> <li>• performance criteria related to needs, values and beliefs of the end user</li> <li>• application of design fundamentals and factors affecting design</li> </ul>
	10%	Semester 2 Weeks 3–5	<p><b>Task 9:</b> Devise a solution to project two – developing a solution through concept drawings, working drawings, patterns or templates. Present:</p> <ul style="list-style-type: none"> <li>• investigated context materials as listed in Unit 4</li> <li>• annotated pictorial drawings of ideas to a final drawn proposal including: <ul style="list-style-type: none"> <li>▪ annotated orthographic concept drawings, either CAD or hand-drawn</li> </ul> </li> <li>• working drawings – detailed orthogonal drawings with lists of materials, parts and components</li> <li>• production plan on a timeline</li> </ul>

Assessment type and weighting	Assessment task weighting	When/ duration	Assessment task
Production (Practical) 50%	5%	Semester 1 Weeks 7–8	<b>Task 4:</b> 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	<b>Task 5:</b> 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	<b>Task 10:</b> 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	<b>Task 2:</b> Investigate materials and production methods. Research materials and processes suitable for the development of a solution, and report on: <ul style="list-style-type: none"> <li>• nature and properties of materials</li> <li>• materials in context</li> </ul>
	2%	Semester 1 Week 14	<b>Task 6:</b> Evaluation of completed project one <ul style="list-style-type: none"> <li>• complete a written report on, and provide photographs of, the completed product</li> </ul>
	3%	Semester 2 Weeks 1–2	<b>Task 8:</b> Investigate materials <ul style="list-style-type: none"> <li>• Research and report on materials and recycling methods for different materials; recycling methods and processes</li> </ul>
	2%	Semester 2 Weeks 11–12	<b>Task 11:</b> Evaluation of completed project two <ul style="list-style-type: none"> <li>• complete a written report on, and provide photographs of, the completed product</li> </ul>
Externally set task 15%	15%	Semester 1 Week 13	<b>Externally set task</b> 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
<b>Total</b>	<b>100%</b>		