



SAMPLE ASSESSMENT OUTLINE

MATERIALS DESIGN AND TECHNOLOGY
GENERAL YEAR 11

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Sample assessment outline

Materials Design and Technology – General Year 11

Unit 1 and Unit 2

Assessment type and weighting	Assessment task weighting	When	Assessment task
Design 25%	7%	Semester 1 Weeks 1–3	<p>Task 1 Part A: Students use a design process to design a product for their own use, using all or some recyclable materials</p> <p>Introduction to design process; investigate and devise through development of a design portfolio</p> <p>Design fundamentals and skills</p> <ul style="list-style-type: none"> Investigate, devise, evaluate
	5%	Semester 1 Weeks 4–6	<p>Task 1 Part B: Devise a solution</p> <p>Students use a design process to prepare drawings, patterns or templates, and then develop a production plan to manufacture the product</p> <p>Skills and techniques</p> <ul style="list-style-type: none"> ICT, portfolio development and communication skills context appropriate drawings and relevant technical information to produce the final product to demonstrate workroom/studio terminology appropriate to context select appropriate materials and calculate the quantities of materials required to complete the project
	8%	Semester 2 Weeks 1–4	<p>Task 4 Part A: Students use a design process to design a product using a combination of different materials</p> <p>Investigate different materials within context and/or from outside the designated context</p> <p>Design fundamentals and skills</p> <ul style="list-style-type: none"> investigate, devise, evaluate
	5%	Semester 2 Weeks 5–7	<p>Task 4 Part B: Devise a solution</p> <p>Skills and techniques</p> <ul style="list-style-type: none"> ICT, portfolio development and communication skills develop context appropriate drawings and relevant technical information to produce the final product use workroom/studio terminology appropriate to context select appropriate materials and calculate the correct amount required to order and purchase materials to complete the project operate machinery and tools appropriate to context

Assessment type and weighting	Assessment task weighting	When	Assessment task
Production 60%	5%	Semester 1 Weeks 7–8	Task 2 Part A: Students complete skills development task/s, as per context specific skills and techniques Skills development exercises, prior to the production of the proposed product Daily work log/timesheet to record skills development
	25%	Semester 1 Weeks 9–16	Task 2 Part B: Students use safe production methods to produce the product. Document a daily work log/timesheet, including record of production with stage photos of production Skills and techniques <ul style="list-style-type: none"> workroom/studio terminology appropriate to context select appropriate materials and calculate the quantities of materials required to complete the project with supervision, operate machinery and tools appropriate to context Safety <ul style="list-style-type: none"> correct use of personal protective equipment (PPE) where applicable demonstrate occupational safety and health (OSH) practices appropriate to tasks being undertaken in workshops Production management <ul style="list-style-type: none"> production plan ongoing evaluation techniques: diary, journal or portfolio notes and use of photography to record ongoing progress/decision changes made to the project
	30%	Semester 2 Weeks 8–15/16	Task 6: Manufacture of proposed product Safe production methods to produce the product. Document a daily work log/timesheet including record of production with stage photos of production Skills and techniques <ul style="list-style-type: none"> use workroom/studio terminology appropriate to context select appropriate materials and calculate the correct amount required to order and purchase materials to complete the project operate machinery and tools appropriate to context Safety <ul style="list-style-type: none"> correct use of Personal Protective Equipment (PPE) where applicable conduct risk assessment for using specific tools/machinery demonstrate OSH practices appropriate to tasks being undertaken in workshops apply risk management strategies in the workshop/studio recognise need and purpose of Materials Safety Data (MSD) with regard to storage and handling of hazardous substances and hazardous operations appropriate to situation
Response 15%	5%	Semester 2 Weeks 2–3	Nature and properties of materials – as per context Task 5: Collect information and present a report on the nature and properties of materials This assignment requires students to gather and synthesise information about the physical differences on materials within context

Assessment type and weighting	Assessment task weighting	When	Assessment task
	2%	Semester 1 Week 17	Design fundamentals and skills Evaluate Task 1 Part C: Evaluation of completed product; written report on, and photographs of completed product Evaluate finished product by responding to evaluation questions
	5%	Semester 1 Weeks 2–3	Materials in context – as per context Task 3 Part A: Investigate materials Study the nature and properties of materials as per context content This assignment requires students to list context specific materials, their characteristics and properties. Task 3 Part B: Materials use and environmental considerations Research and identify environmental considerations of the three ‘Rs’ – reduce, re-use and recycle This assignment requires students to gather and synthesise information on the topic of: the environmental benefits of the three ‘Rs’ – reduce, re-use and recycle
	3%	Semester 2 Week 17	Design fundamentals and skills Evaluate Task 4 Part C: Evaluation of completed product; written report on and photographs of completed product Evaluate finished product by responding to evaluation questions
Total	100%		