

Unit Outline - Year 8 Material and Technologies Specialisations

YEAR LEVEL:	8	SUBJECT:	TMT 08	UNIT NAME:	Light Box	
Unit Context Overview:	Students will construct a light box. They will design the lit acrylic section, using the internet, Adobe Illustrator and a laser cutter.				Unit Length:	8 weeks

KEY UNIT LEARNING GOALS AND SUCCESS CRITERIA

KEY LEARNING GOALS		SUCCESS CRITERIA
3	LG1 – understand the need for safety in the workshop	Success Criteria (students can): <ul style="list-style-type: none"> I can identify the correct way to act and use equipment in the workshop
4	LG2 – use the internet to research booklet topics	<ul style="list-style-type: none"> I can answer set technology questions using the teacher and the internet as my resources
5	LG3 – use the internet to research specific design ideas	<ul style="list-style-type: none"> I can use the design process to determine a final design for my acrylic piece
6	LG4 – identify common workshop tools and machinery	<ul style="list-style-type: none"> I can identify and correctly select common workshop tools and machinery
7	LG5 – learn how to construct a basic electrical circuit	<ul style="list-style-type: none"> I can understand a basic electrical circuit drawing I can construct the circuit using a soldering iron and other electrical tools
8	LG6 – experience shaping of a thermoplastic	<ul style="list-style-type: none"> I can cut, trim and edge finish polymethyl methacrylate I can supervise a laser cutter as it cuts and etches my work
9	LG6 – using basic tools to construct a timber box	<ul style="list-style-type: none"> I can use basic hand tools to work timber I can construct a simple timber box with rebated joints, glue and nails
10	LG7 – how to apply a finish to a timber article and complete a workbook for submission	<ul style="list-style-type: none"> I can select and correctly apply a clear finish to timber I can complete and present a workbook based on my work



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	Resources required: Laptop/iPad Pen (stationary as required) Notebook or printed booklet Textbook Access to Internet	Additional Resources: Eg: Safety glasses, Pine timber 600 x 42 x 12mm per student, Squares, Files, Sand paper, steel wool, steel rule, coping saw, tenon saw, hammer, mallet, chisel, nail punch, pincers. TMT 08 - Project and Design Booklet		
Week	Content Description	Sections or pages in the booklet/resource.		Assessment Details
1				
2				
3	Safety Units through OnGuard	Safety Booklet, OnGuard online	Working through Modules	Complete OnGuard 9 Modules
4	Lightbox Booklet - Research	Year 8 Lightbox Booklet	Working through booklet	Submit pages 3 & 4
5	Lightbox Booklet – Design Ideas	Year 8 Lightbox Booklet	Working through booklet	Submit page 5 & 6
6	Lightbox Booklet – Final Design Tools	Year 8 Lightbox Booklet	Working through booklet	Submit pages 7, 8 & 10
7	Electrical Circuits – Construct the led circuit.			Submit Electrical task
8	Thermoplastics – Construct acrylic image.			Submit Thermoplastics task
9	Assembly of Parts of Project and Finishing			
10	Lightbox Booklet – Finalisation	Year 8 Lightbox Booklet	Complete booklet	Completed Booklet