



UNIT OUTLINE - MATERIALS & TECHNOLOGIES SPECIALISATIONS

YEAR LEVEL:	9	SUBJECT:	TMT	UNIT NAME:	Foot Stool & CO2 Dragster	
Unit Context Overview:	Students will design an upholstered foot rest. To do this they will experiment with woodworking tools and include a variety of different techniques and skills. They will design and create a unique upholstered foot rest.				Unit Length:	20 Weeks

KEY UNIT LEARNING GOALS AND SUCCESS CRITERIA		
KEY LEARNING GOALS		SUCCESS CRITERIA
1	Students will understand how the features of technologies impact on designed solutions and influence design decisions for each of the prescribed technologies contexts.	Success Criteria (students can): <ul style="list-style-type: none"> Students will be able to independently and safely produce effective designed solutions for the intended purpose.
2	Students will be able to create designed solutions (decorative object) for the materials technology context based on an evaluation of needs or opportunities (client specification, available materials and tools, skillset).	<ul style="list-style-type: none"> Create and adapt design ideas, make considered decisions and communicate to the teacher using appropriate technical terms (T3 language) and a range of graphical representation techniques- annotated sketches and/or digital photos of jobs at various stages of the design project
3	Students will be able to independently and safely produce effective designed solutions for the intended purpose	<ul style="list-style-type: none"> Develop criteria for success, including sustainability considerations, and use these to judge the suitability of their ideas and designed solutions and processes.



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	Resources required: Laptop/iPad Pen (stationary as required) Notebook or printed booklet Textbook Access to Internet	Additional Resources: Eg: PPE		
Week	Content Description	Sections or pages in the booklet/resource.		Assessment Details
Term 1				
1				
2				
3	Safety units through OnGuard What is a Footstool? Explain research, images of it in real life applications and explain these.	Safety booklet, Onguard online	Working through modules	Complete Onguard Modules
4	What materials is the Footstool project made out of? Create a materials list for the Footstool.	Google	Create a text document.	
5	Google all SOP's required to construct this project. Construction of a bridle joint	Workshop – hands on	Working through booklet independently	
6	Describe how you would construct a bridle joint.	Workshop – hands on	Working through booklet independently	
7	Explain what cloth materials could you use for the upholstery.	Workshop – hands on	Working through booklet independently	DRAFT stool journal due.
8	Describe how you would attach the upholstery.	Workshop – hands on	Working through booklet independently	
9	Explain the applications of various timber finishes.	Workshop – hands on	Working through booklet independently	Foot stool practical due.
10	Compiling journal ready for submission.	Text document	Create a powerpoint.	FINAL Foot stool journal due.
Term 2				
11	CO2 Dragster designs and research	CO2 dragster work booklet	Working through booklet	Page 5



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12	CO2 Dragster designs and research	CO2 dragster work booklet	Working through booklet	Pages 7 and 8
13	CO2 Dragster sketches	CO2 dragster work booklet	Working through booklet	Pages 9 and 10
14	CO2 Dragster construction	Workshop – hands on	Working through booklet independently	
15	CO2 Dragster construction	Workshop – hands on	Working through booklet independently	
16	CO2 Dragster construction	Workshop – hands on	Working through booklet independently	
17	CO2 Dragster construction	Workshop – hands on	Working through booklet independently	DRAFT CO2 Dragster journal due.
18	CO2 Dragster races		Working through booklet independently	CO2 Dragster practical due.
19	Compiling journal ready for submission.	Text document		FINAL CO2 Dragster journal due.
20	Upskilling & Workshop Management			