

Australian Curriculum: Design and Technologies — Year 9 **TMT-Materials and technologies specialisations** Band plan 2023

CURRICULUM		YEAR 9							
			SEMES	TER 1		SEMESTER 2			
			Term 1		Term 2	Term 3	Term 4		
Uı	nit name	CO	2 concept vehicle		Passive speaker box	Folding Beach Table	BBQ Spatula		
Unit description engineering technologic materials to vehicle. The techniques speed and concept veorthograph construction refinement and construction vehicles with of their vehicles with of their vehicles with techniques speed and construction refinement and construction vehicles with of their vehicles with the speed and		In this factor as the search will apply as the search that influence the efficiency of the CO2 shicle. Students will apply hic sketches before and the vehicle. Testing and the wehicle. Testing and the wehicle will inform the final design suction of the vehicle. For the compare the performance hicles from another class as the factor as the students will apply the specific approach to the search will inform the final design suction of the vehicle. Testing and the specific assess that influence the specific approach to the specific approach will be specific as the specif		his unit, students will identify the tors that impact on their decisions they design a speaker box. dents will produce a series of acept designs, highlighting their ponses to data. They will provide a dies of orthographic sketches ailing the size and dimensions of speaker design, materials list and als and equipment to be used. Risk dessment for the tools and an impact will be produced, intifying hazards and control asures needed. Students will duce a production plan and inufacture the speaker box.	In this unit, students will design and construct a folding table for a picnic. You will provide evidence of the processes and skills needed to manufacture the Folding Beach Table through a PowerPoint presentation.	In this unit, students have been asked to design and construct an aluminium BBQ spatula that meets detailed specifications. Students will provide evidence of the processes and skills needed to manufacture the aluminium BBQ spatula in a production plan. Students will undertake the design process by designing a modified blade.			
ASSESSMENT			YEAR 9						
			SEMES				SEMESTER 2		
			CO2 concept vehicle - A	Т1	Passive speaker box – AT2		BBQ Spatula – AT 4		
Range and balance of summative assessment conventions		hnique	Project-3D Model		Project	Project	Project		
		of text	Portfolio		Portfolio	Portfolio	Portfolio		
		Mode	Written and product		Written and product	Written and product	Written and product		
	Cond	 To be completed individ To be completed in class Completed booklet and vehicle to be submitted 		s time	 To be completed individual To be completed in class the completed booklet and speaker box to be submitted. 	 To be completed in class time Completed booklet and 	 To be completed individually To be completed in class time Completed booklet and spatula to be submitted 		

Aspects of the achievement standard				
explain how people working in design and technologies occupations consider factors that impact on design decisions and the technologies used to produce products, services and environments	✓	✓		
identify the changes necessary to designed solutions to realise preferred futures they have described		✓		
when producing designed solutions for identified needs or opportunities, students evaluate the features of technologies and their appropriateness for purpose for one or more of the technologies contexts			✓	✓
create designed solutions for one or more of the technologies contexts based on a critical evaluation of needs or opportunities	✓	✓	✓	
establish detailed criteria for success, including sustainability considerations, and use these to evaluate their ideas and designed solutions and processes			✓	✓
create and connect design ideas and processes of increasing complexity and justify decisions				
communicate and document projects, including marketing for a range of audiences	✓			✓
independently and collaboratively apply sequenced production and management plans when producing designed solutions, making adjustments to plans when necessary		√		
select and use appropriate technologies skilfully and safely to produce high-quality designed solutions suitable for the intended purpose			✓	✓

Term 1 Term 2 Term 3 Term 4 indicates opportunities that summative assessments provide for students to demonstrate evidence against aspects of the achievement standard