

9 Design & Technologies – Semester Outline

YEAR LEVEL	9	SUBJECT	DAT	UNIT NAME	Design & Technologies		
Unit Context Overview	First term establis design project.	hes foundational	skills and knowledges, while second term	students learn how	to manage a	Unit Length	20 weeks / 1 Sem
Achievement Standard	By the end of Year 9, students 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. They 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. Students create designed solutions for one or more of the technologies contexts based on a critical evaluation of needs or opportunities. They establish detailed criteria for success, including sustainability considerations, and use these to evaluate their ideas and designed solutions and processes. They create and connect design ideas and processes of increasing complexity and justify decisions. Students communicate and document projects, including marketing for a range of audiences. They independently and collaboratively apply sequenced production and management plans when producing designed solutions, making adjustments to plans when necessary. They select and use appropriate technologies skilfully and safely to produce high-quality designed solutions suitable for the intended purpose.						

Assessment - PDD

Assessment: Term 1

1. Summative Test: combination short answer and practical

70 mins

Formative Design Challenge: Is that Design? Peer feedback & whole class discussion

Formative Design Challenge 2: The Design Process. Formative Design Challenge 3: Reverse Design.

Summative: Introductory Folio: Product Design and the Inventor Program

Formative through set benchmarks that must be achieved before students can proceed to the next phase.

Assessment: Term 2

Formative: Design Challenge 4: Future bathroom (sustainable design)

1. Summative: Environmental Design: Preliminary design folio- Revit program

Formative through set benchmarks that must be achieved before students can proceed to the next phase.

Formative Design Challenge 5: Branding Packaging-Marketing Summative: Graphic Design – Sketching - Focussing on Logos in particular

WK	TOPIC	LESSON NOTES	RESOURCES				
	Term 1						
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3	Sketching Fundamentals	Basic Sketching Skills – perspective, Production drawings: Orthographic (third/first angles), Pictorial drawings: Isometric, Oblique, Perspective; DIMENSIONING; OPEN-IN-LINE FOR ASSEMBLY; SECTIONING	Paper pencils, ppt				
4	Sketching Fundamentals	Basic Sketching Skills – perspective, Production drawings: Orthographic (third/first angles), Pictorial drawings: Isometric, Oblique, Perspective; DIMENSIONING; OPEN-IN-LINE FOR ASSEMBLY; SECTIONING					
5	UNIT 1 Foundation						
	FOUNDATION STUDIES	Introduction to Graphics:Design Challenge – Is that Design? Exploring design in the community					
6	– KNOWLEDGE AND UNDERSTANDING	Foundation Studies cont.					
0	Technologies and Society	Completing all worksheets, Isometric/Orthographic truck drawings					
	recrimologics and ecoloty	DIMENSIONING and SECTIONING (+ Oblique)					
7	Unit 2 Processes &	PROCESSES AND PRODUCTION SKILLS	Inventor software				
	Production Skills	Introduction – INVENTOR Basic interface and tool exploration.					
8		INVENTOR Basic interface and tool exploration - Isometric in practice - truck project					
9		INVENTOR Continue practices – different functions					
10		INVENTOR modelling of product drawing - dimensioning					
	Term 2						
11	Unit 3 Introduction to	Introduction to Environmental Design - REVIT	Revit software				
	Environmental Design	Design Challenge – Future bathroom 'refresh refuge' - sustainable design					
		JNR SCHOOL COMMON ROOM OR DREAM BEDROOM					
12	User-centred	Floor plans. Draw floor plan of a room at home. Guess measurements. Check them for homework.					
	design/Client needs	Make Revit City login. Continue with folio for course work.					
13		Learn Revit – Make an existing room (folio)					
14		Sketch ideas					
15		Design Brief, criteria and research for dream room					
16		Rught plans					
17		Start making in Revit					
18	III. it A later land; and	Continue in Revit					
19	Unit 4 Introduction to	Introduction to Graphic Design LOGO DESIGN – using initials					
	Graphic Design	Design Challenge – branding packaging – marketing - backstory					
20		Typography, Symbols, Elements and Principles of Design					
20		Finalise Logo Design and pitch					