

## Loreto College Coorparoo

Semester 1 2022

YEAR 9 Technology: Digital & Design								
Student		Teacher	Mr Li					
Issued	Jan 2022	Due Date	Thur 17 March 9B (3), 9C (6), Fri 18 March 9A (1)					
Unit	CAD Design & 3D Printing							

Conditions															
Technique	Designing solutions to Human Centred Design (HCD) problems														
Duration	7 Weeks														
Mode	Project Based Learning			Lei	ength										
Individual/ group	Individual			Ot	her										
Resources available	Technology Portal, Ultimaker 3D Printers, 123D Design Software														
Assessment Dimensions	A+	А	A-	B+	В	B-	C+	с	C-	D+	D	D-	E+	E	E-
1. Knowledge & Understanding															
2. Processes & Production Skills															

Authentication strategies						
The teacher will provide class time for task completion.						
The teacher will consult with each student as they develop their responses.						
Student progress will be monitored, and digital copies of student responses will be collected at the checkpoints.						

## CRITERIA SHEET

	A B		С	D	E						
The folio of a student's work has the following characteristics:											
K & U	discerning evaluation of the features of 3D Printers and CAD applications and their appropriateness for purpose when producing designed solutions for identified design briefs	<b>informed</b> evaluation of the features of 3D Printers and CAD applications and their appropriateness for purpose when producing designed solutions for identified design briefs	evaluation of the features of 3D Printers and CAD applications and their appropriateness for purpose when producing designed solutions for identified design briefs	explanation of the features of 3D Printers and CAD applications and their appropriateness for purpose when producing designed solutions for identified design briefs	statements about the features of 3D Printers and CAD applications for one or more of the identified design briefs						
P & PS	purposeful creation of design ideas using processes of increasing complexity. Discerning justification of decisions	effective creation of design ideas using processes of increasing complexity. Informed justification of decisions	creation and connection of design ideas using processes of increasing complexity. Justification of decisions	partial creation of design ideas and processes. Explanation of decisions	fragmented creation of design ideas and processes. Statement of decisions						

## Context You will learn how 3D printing is used in society and how to create your own printable 3D designs. Tasks You are to complete: Bag Tag Design (Summative) • Animal Toy Design (Summative) • • Paste Pusher (Extension 1) CHECKPOINTS □ Week 4 of Term 1 — progress check (Bag Tag) □ Week 6 of Term 1 — progress check (Animal Toy) To complete this task, you must: Refer to the detailed instructions provided on the Digital & Design Portal at: http://dt.loreto.qld.edu.au/9/U2\_3D\_Printing/1\_intro.html

## ETHICAL SCHOLARSHIP DECLARATION - CAD Design & 3D Printing unit

\_\_\_\_\_, confirm and acknowledge that the work produced in I, \_ this assessment, including 123D files, are my own. Any words/phrases that I have used from other sources have been referenced and acknowledged.

Signed: \_\_\_\_\_ Date: \_\_\_\_\_