Loreto College Coorparoo
Semester 1 2021

YEAR 8 Technology: Digital & Design

Student		Teacher	Mr Joyce (8B) & Mr Morgan (8A)
Issued	21/4/2021	Due Date	Fri 4/6/21 – 8A P2, 8B P3
Unit	Micro:bit Coding & problem solving		

Conditions

Technique	Coding tasks using a Micro:bit + MakeCode App		
Duration	7 Weeks		
Mode	Project Based Learning	Length	
Individual/ group	Individual	Other	
Resources available	Dig Tech Portal, Micro:bit hardware, MakeCode app		

Assessment Dimensions	A+	A	A-	B+	B	B-	C+	C	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 copies of student code (HEX files) will be collected at checkpoints.

CRITERIA SHEET

		A	B	C	D	E
		The folio of a student's work has the following characteristics:				
MicroBits	K & U	**comprehensive** explanation of how the features of MicroBits impact on designed solutions and influence design decisions for each of the design challenges.	**detailed** explanation of how the features of MicroBits impact on designed solutions and influence design decisions for each of the design challenges.	explanation of how the features of MicroBits impact on designed solutions and influence design decisions for each of the design challenges.	**partial** explanation of how the features of MicroBits impact on designed solutions and influence design decisions for each of the design challenges.	**statements** about how the features of MicroBits impact on designed solutions and influence design decisions for each of the design challenges.
	P & PS	**systematic** testing, modification and **proficient** implementation of Microbit solutions	**reliable** testing, modification and **effective** implementation of Microbit solutions	testing, modification and implementation of Microbit solutions	**partial** testing **or** modification and **partial** implementation of Microbit solutions	**fragmented** testing **or** modification **or** implementation of Microbit solutions

Context

You will complete a range of Coding activities using your Micro:bit. You will solve problems by writing, testing and refining code and by building prototype designs.

Task

You are to complete:
- Mini Make Tasks *(Formative)*
- Magic Eight Ball *(Formative)*
- Make a Pet *(Summative)*
- Innovation Challenge *(Summative)*
- Micro:bit Reflection *(Summative)*
- Extension – Reaction Game *(Formative)*

CHECKPOINTS

☐ Week 3 of Term 2 — progress check (Mini Make & Magic Eight Ball Tasks)

☐ Week 6 of Term 2 — progress check (Make a Pet & Innovation Challenge)

To complete this task, you must:

Use the resources available to you on the Technologies Portal. These can be found at:

http://dt.loreto.qld.edu.au/8_DD/microbit/introduction.html

ETHICAL SCHOLARSHIP DECLARATION

I, _____, confirm and acknowledge that the work produced in this assessment, including code, is my own. Any words/phrases that I have used from other sources have been referenced and acknowledged.

Signed: _____   Date: _____