

Loreto College Coorparoo Semester 1 2021

YEAR 7 / Technology: Ideas & Innovation

Student		Teacher	Mr Wright			
Issued	1/2/2021	Due Date	7A Mon 15 th March P5			
Unit	Robots & Drones					

Conditions															
Technique	PDF E	PDF Booklet + Practical demonstrations													
Duration	6 We	6 Weeks													
Mode	Project Based Learning			Ler	Length										
Individual/ group	Individual			Otl	Other										
Resources available	Dig T	Dig Tech Portal, Drones, Jimu Robots, Work Booklet, Chromebooks, iPads													
Assessment Dimensions	A+	A	A-	B+	В	B-	C+	С	C-	D+	D	D-	E+	E	E-
Knowledge & Understanding															
2. Processes & Production Skills															

Authentication strategies

The teacher will provide class time for task completion.

The teacher will conduct interviews or consultations with each student as they develop the response.

Student progress will be documented and copies of student digital responses collected at the checkpoints.

CRITERIA SHEET

The folio of a student's work has the following characteristics: Comprehensive explanation of how of how the features of Robotics impact on designed solutions and influence design and influence design in the features work has the following characteristics: Comprehensive explanation of how the features of Robotics impact on designed solutions and on designed solutions and influence design and influence design in the features of Robotics impact on designed solutions and influence design in the features of Robotics impact on designed solutions and influence design in the features of Robotics impact on designed solutions and influence design in the features of Robotics impact on designed solutions and influence design in the features of Robotics impact on designed solutions and influence design in the features of Robotics impact on designed solutions and influence design in the features of Robotics impact on designed solutions and influence design in the features of Robotics impact on designed solutions and influence design in the features of Robotics impact on designed solutions and influence design in the features of Robotics impact on designed solutions and influence design in the features of Robotics impact on designed solutions and influence design in the features of Robotics impact on designed solutions and influence design in the features of Robotics impact on designed solutions and influence design in the features of Robotics impact on designed solutions and influence design in the features of Robotics impact on designed solutions and influence design in the features of Robotics impact on designed solutions and influence design in the features of Robotics impact on designed solutions and influence design in the features of Robotics impact on designed solutions and influence design in the features of Robotics impact on design									
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Context

You will be learning to drive and fly Robots and Drones and also how to program Drones and Robots. Programming is sometimes called Coding and involves using a programming language to give commands to devices such as Robots. The coding language you are going to be using is called **Blockly**.

You are going to be using Jimu Astrobot & Rover Robots and Tellos Drones.

To successfully program these devices you are going to write Blockly code using the **Jimu Robot App, Tynker** and other apps. You will also be using Android Chromebooks and iPads.

Task

You are to complete:

- Rover Coding Challenge Tasks (Robot & Drone Workbook)
- Astrobot Coding Tasks (Robot & Drone Workbook)
- Drone Coding Challenge Tasks (Robot & Drone Workbook)
- Research Task (Word document)

CHECKPOINTS
□ Week 3 of 6 — progress check (Rover Code)
☐ Week 5 of 6 — progress check (Drone Code)
□ Week 6 of 6 — progress check (Research Task)

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/7 II/u1 robots drones/1 intro.html

ETHICAL SCHOLARSHIP DECLARATION – Robots & Drones Assessment						
I,this assessment piece, including coding, is my own. Any wo been referenced and acknowledged.	, confirm and acknowledge that the work produced in ords/phrases that I have used from other sources have					
Signed:	Date:					