

Subject: Digital Technologies

Semester: Two

Week	Topic		Learning Focus	Curriculum
1 - 2	Photography		Using a Digital Camera Image editing Types of images How colour is represented digitally	Investigate how digital systems represent text, image and sound data in binary <a href="#">(VCDTDI036)</a>
3 - 8	Programming		Python Using variables Using 'if' statements Using 'for loops'	Design algorithms represented diagrammatically and in English, and trace algorithms to predict output for a given input and to identify errors VCDTCD042 Develop and modify programs with user interfaces involving branching, iteration and functions using a general-purpose programming language VCDTCD043
9 - 10	Word Excel		Editing documents Creating simple Macro	Define and decompose real-world problems taking into account functional requirements and sustainability (economic, environmental, social), technical and usability constraints <a href="#">(VCDTCD040)</a>
Week	Topic	Learning Focus	Curriculum	
1 - 10	Robotics		Understanding the brain Programming the brain Designing a program Testing Evaluating	Analyse and visualise data using a range of software to create information, and use structured data to model objects or events <a href="#">(VCDTDI038)</a>  Evaluate how well student-developed solutions and existing information systems meet needs, are innovative and take account of future risks and sustainability <a href="#">(VCDTCD044)</a>