

....Educating Global Citizens

Year Level Plan	Year 10	Digital Technologies		
Digital Technologies		Introduction to	Introduction to Digital Solutions	
		Semes	Semester One	
Overview In this unit students will use the problem solving process of Explore, Develop, Generate, Evaluation and Refine in solving real world problems over a variety of coding contexts. Students will apply a range of skills and processes when creating digital solver. • Explore social and ethical issues associated with technology as we know it today. • Plan and manage a range of digital projects • Design and evaluate user experiences when planning digital projects • Use object-oriented programming language/s • Design and evaluate algorithms in solving digital problems • Test and predict results of digital projects • Evaluate how student solutions and existing information systems meet needs and take account of risk, sustainability, and potential for innovation and enterprise. • Share and collaborate information online, establishing protocols for the use, transmission and maintenance of data and projects.				
		Assessm	Assessment Tasks	
Assessment Task 1: Problem Solving Process Students are to demonstrate p Digital Technologies - Proce • Define and decompose real to identify needs • Design the user experience • Evaluate critically how stude for innovation and enterprise	processing and production skills i essing and Production Skills -world problems precisely, taking of a digital system by evaluating ent solutions and existing informa	n planning, designing and building a responsive website to solve a problem. g into account functional and non-functional requirements and including interviewing stakeholders alternative designs against criteria including functionality, accessibility, usability, and aesthetics ation systems and policies, take account of future risks and sustainability and provide opportunities	 Assessment Task 2: Programming Language Students are to demonstrate processing and production skills in designing algorithms Digital Technologies - Processing and Production Skills Define and decompose real-world problems precisely, taking into account functional identify needs Design algorithms represented diagrammatically and in structured English and value Implement modular programs, applying selected algorithms and data structures inclusion 	

• Plan and manage projects using an iterative and collaborative approach, identifying risks and considering safety and sustainability



