


Year Level Plan	Year 10	Digital Technologies	
Digital Technologies		Digital Data Management	
Semester Unit			
<p><b>Overview</b></p> <p>In this unit, students will use the problem solving process of explore, develop, generate &amp; refine in solving real world problems. Students will apply a range of skills and processes when creating digital solutions. They will:</p> <ul style="list-style-type: none"> <li>Plan and manage a range of digital projects</li> <li>Design and evaluate user experiences when planning digital projects</li> <li>Test and predict results of digital projects</li> </ul> <p><b>Course Outline:</b></p> <ul style="list-style-type: none"> <li>Define business problems</li> <li>Develop techniques for acquiring, storing and management of data from a range of sources.</li> <li>Apply the principles and elements of design to user's requirements to create solutions</li> <li>Evaluate success of solutions</li> </ul>			
Assessment Tasks			
<p><b>Assessment Task 1</b> <b>Digital Project - Microsoft Access</b></p> <p>Students are to demonstrate processing and production skills in planning, designing and building a database application to solve a business problem</p> <p>This assessment provides opportunities to gather evidence of student learning in:</p> <p><b>Processing and Production skills</b></p> <ul style="list-style-type: none"> <li>Analyse and visualise data to create information and address complex problems, and model processes, entities and their relationships using structured data</li> <li>Define and decompose real-world problems precisely, taking into account functional and non-functional requirements and including interviewing stakeholders to identify needs</li> <li>Implement modular programs, <i>applying selected algorithms</i> and data structures including using an object-oriented programming language</li> <li>Create interactive solutions for sharing ideas and information online, taking into account safety, social contexts and legal responsibilities</li> <li>Plan and manage projects using an iterative and collaborative approach, identifying risks and considering safety and sustainability</li> </ul>		<p><b>Assessment Task 2</b> <b>Digital Project - Microsoft Excel</b></p> <p>Students are to demonstrate processing and production skills in planning, designing and building a spreadsheet application to solve and display business information as well as solve a problem</p> <p>This assessment provides opportunities to gather evidence of student learning in:</p> <p><b>Processing and Production skills</b></p> <ul style="list-style-type: none"> <li>Analyse and visualise data to create information and address complex problems, and model processes, entities and their relationships using structured data</li> <li>Define and decompose real-world problems precisely, taking into account functional and non-functional requirements and including interviewing stakeholders to identify needs</li> <li>Implement modular programs, <i>applying selected algorithms</i> and data structures including using an object-oriented programming language</li> <li>Create interactive solutions for sharing ideas and information online, taking into account safety, social contexts and legal responsibilities</li> <li>Plan and manage projects using an iterative and collaborative approach, identifying risks and considering safety and sustainability</li> </ul>	