

Levels 5 & 6 Overview of units

We note that some curriculum content descriptors are not addressed in this overview at the time of publishing. School snapshots for the case studies project are classified on a spectrum from "starting out" to "consolidating practices".



	Unit A	Unit B
Title / theme	Plan! Make! Program! Repeat!	Code Collaboration (micro:bits)
Summary / intention	To understand how data can be collected, accessed and presented using simple software to create information and solve problems	To understand digital system components and peripheral devices can be used to perform input, output and storage functions
Approximate number of hours	5	5
Assessment piece or pieces	hardware, software, input, output, circuits, engineering, plan, code	inputs, outputs, peripheral devices, variables, coding, conditionals, radio, communicate, connect, data, pairing
Hardware and software tools used	Brain box, micro:pet, Microsoft MakeCode	micro:pet, Microsoft MakeCode, coin flipper game
Curriculum Content Descriptions addressed:	<p>DIGITAL SYSTEMS</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> VCDTDS026 <p>DATA AND INFORMATION</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> VCDTDS027 <input checked="" type="checkbox"/> VCDTDS028 <input type="checkbox"/> VCDTDS029 <p>CREATING DIGITAL SOLUTIONS</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> VCDTDS030 <input type="checkbox"/> VCDTDS031 <input type="checkbox"/> VCDTDS032 <input type="checkbox"/> VCDTDS033 <input type="checkbox"/> VCDTDS034 	<p>DIGITAL SYSTEMS</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> VCDTDS026 <p>DATA AND INFORMATION</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> VCDTDS027 <input checked="" type="checkbox"/> VCDTDS028 <input type="checkbox"/> VCDTDS029 <p>CREATING DIGITAL SOLUTIONS</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> VCDTDS030 <input type="checkbox"/> VCDTDS031 <input type="checkbox"/> VCDTDS032 <input type="checkbox"/> VCDTDS033 <input checked="" type="checkbox"/> VCDTDS034
DIGITAL SYSTEMS	<p>VCDTDS026: Examine the main components of common digital systems, and how such digital systems may connect together to form networks to transmit data</p>	
DATA AND INFORMATION	<p>VCDTDI027: Examine how whole numbers are used as the basis for representing all types of data in digital systems</p>	
CREATING DIGITAL SOLUTIONS	<p>VCDTDI028: Acquire, store and validate different types of data and use a range of software to interpret and visualise data to create information</p>	
CREATING DIGITAL SOLUTIONS	<p>VCDTDI029: Plan, create and communicate ideas, information and online collaborative projects, applying agreed ethical, social and technical protocols</p>	
CREATING DIGITAL SOLUTIONS	<p>VCDTCD030: Define problems in terms of data and functional requirements, drawing on previously solved problems to identify similarities</p>	
CREATING DIGITAL SOLUTIONS	<p>VCDTCD031: Design a user interface for a digital system, generating and considering alternative design ideas</p>	
CREATING DIGITAL SOLUTIONS	<p>VCDTCD032: Design, modify and follow simple algorithms represented diagrammatically and in English, involving sequences of steps, branching, and iteration</p>	
CREATING DIGITAL SOLUTIONS	<p>VCDTCD033: Develop digital solutions as simple visual programs</p>	
CREATING DIGITAL SOLUTIONS	<p>VCDTCD034: Explain how student-developed solutions and existing information systems meet current and future community and sustainability needs</p>	

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