## Levels 3 & 4 Overview of units

**VCDTCD023:** Define simple problems, and describe and follow a sequence of steps and decisions involving branching and user input

**VCDTCD025:** Explain how student-developed solutions and existing information systems meet common personal, school or community

**VCDTCD024:** Develop simple solutions as visual programs

(algorithms) needed to solve them

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	Unit C	Unit D
Title / theme	Rate Your Mates	3D Gaming	Intro to Scratch	Crossy Road
Summary / intention	Students use the micro:bit to create a friendship rating generator which rates their friendship out of 100%.	Students design and create a multi level 3D maze game.	Students create a sequence of mini projects in Scratch before designing their own simple game.	Students recreate the game, 'Crossy Road' using the coding app Hopscotch.
Approximate number of hours	8	8	8	10
Assessment piece or pieces	Series of tasks, completed code	Project – 3D game and planning documents	Project – Simple game design and code	Project – Crossy Road Game
Hardware and software tools used	BBC Microbit Microsoft Make Code	Laptop Purple Mash 2DIY3D	Laptop Scratch	iPads Hopscotch App
Curriculum Content Descriptions addressed:	DIGITAL SYSTEMS	DIGITAL SYSTEMS	DIGITAL SYSTEMS	DIGITAL SYSTEMS
DIGITAL SYSTEMS	☑ VCDTDS019	□ VCDTDS019	□ VCDTDS019	□ VCDTDS019
<b>VCDTDS019:</b> Explore a range of digital systems with peripheral devices for different purposes, and transmit different types of data	DATA AND INFORMATION	DATA AND INFORMATION	DATA AND INFORMATION	DATA AND INFORMATION
DATA AND INFORMATION	□ VCDTDI020	□ VCDTDI020	□ VCDTDI020	□ VCDTDI020
VCDTDI020: Recognise different types of data and explore how the same data can be represented in different ways	□ VCDTDI021	□ VCDTDI021	□ VCDTDI021	□ VCDTDI021
	□ VCDTDI022		□ VCDTDI022	□ VCDTDI022
<b>VCDTDI021:</b> Collect, access and present different types of data using simple software to create information and solve problems	CREATING DIGITAL SOLUTIONS	CREATING DIGITAL SOLUTIONS	CREATING DIGITAL SOLUTIONS	CREATING DIGITAL SOLUTIONS
VCDTDI022: Individually and with others, plan, create and communicate ideas and information safely, applying agreed ethical and social protocols  CREATING DIGITAL SOLUTIONS	☑ VCDTCD023	□ VCDTCD023	☑ VCDTCD023	☑ VCDTCD023
	☑ VCDTCD024	☑ VCDTCD024	☑ VCDTCD024	☑ VCDTCD024
	□ VCDTCD025	☑ VCDTCD025	□ VCDTCD025	□ VCDTCD025
CREATING DIGITAL SOLUTIONS				

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