Digital Technologies 9 & 10 (Stage 5)	Australian Curriculum Digital Technologies Outcomes 9–10											
	Investigate how	Investigate the role	Analyse simple	Develop	Analyse and	Define and	Design the user	Design algorithms	Implement	Evaluate critically	Create interactive	Plan and manage
	data is transmitted	of hardware and	compression of	techniques for	visualise data to	decompose real-	experience of a	represented	modular programs,	how student	solutions for	projects using an
	and secured in	software in	data and how	acquiring, storing	create information	world problems	digital system by	diagrammatically	applying selected	solutions and	sharing ideas and	iterative and
	wired, wireless and	managing.	content data are	and validating	and address	precisely, taking	evaluating	and in structured	algorithms and	existing	information online,	collaborative
	mobile networks,	controlling and	separated from	quantitative and	complex problems,		alternative designs		data structures	information	taking into account	
	and how the	securing the	•	qualitative data	and model	functional and non		validate algorithms		systems and	safety, social	identifying risks
	specifications		(ACTDIK035)	from a range of	processes, entities		including	and programs	object-oriented	policies, take	contexts and legal	and considering
	affect performance			sources,	and their	requirements and	functionality,	through tracing	programming	account of future	responsibilities	safety and
* Darker shading indicates	(ACTDIK023)	networked digital		considering privacy			accessibility,	and test cases		risks and	(ACTDIP043)	sustainability
a primary outcome	(ACTDIKU25)	-				-		-	language (ACTDIP041) 🐼		(ACTDIP045)	(ACTDIP044)
		systems		and security	structured data	interviewing	usability, and	(ACTDIP040)	(ACIDIP041)	sustainability and		
		(ACTDIK034) 🐼				stakeholders to	aesthetics	also ACTDIP029		provide		also ACTDIP032
				(ACTDIP036) 🔊		identify needs	(ACTDIP039) 🐼			opportunities for		
				also ACTDIP025		(ACTDIP038) 🐼	also ACTDIP028			innovation and		
						also ACTDIP027				enterprise		
										(ACTDIP042) 🐼		
										also ACTDIP031		
Part 1: Knowledge and understanding												
Understanding data compression												
Understanding encryption												
Understanding how computers work												
Understanding issues												
Understanding project management: Documentation												
and backups												
Understanding mobile devices and wireless networks												
Part 2: Projects												
Programming												
Project: Spaced out												
Project: Hailstone numbers												
Project: Programming an animated game												
Project: Programming an object-oriented game												
Project: The game of Nim												
Project: Choosing the best algorithm												
Modelling and simulation												
Project: Millionaire by 30?												
Project: Dance organiser												
Project: Conway's the Game of Life												
Digital design		·		·								·
Project: A digital declaration of human rights												
Project: Create your own augmented reality product												
Guided project: Introducing HTML and CSS												
Data analysis and visualisation												
Project: Building a relation First Fleet database												
Project: Using SQL to query a database												
Project: Data analysis using pivot power!												
Project: Analysing and visualising big data												
Robotics												
Project: Designing and building an autonomous robot												
Project: PID line follower robot												

ACARA Copyright Notice

All material identified by 😰 is material subject to copyright under the Copyright Act 1968 (Cth) and is owned by the Australian Curriculum, Assessment and Reporting Authority 2017.

For all Australian Curriculum material except laborations: This is an extract from the Australian Curriculum.

Elaborations: This may be a modified extract from the Australian Curriculum and may include the work of other authors.

Disclaimer: ACARA neither endorses nor verifies the accuracy of the information provided and accepts no responsibility for incomplete or inaccurate information.

In particular, ACARA does not endorse or verify that:

• The content descriptions are solely for a particular year and subject;

All the content descriptions for that year and subject have been used; and

• The author's material aligns with the Australian Curriculum content descriptions for the relevant year and subject.

You can find the unaltered and most up to date version of this material at http://www.australiancurriculum.edu.au. This material is reproduced with the permission of ACARA.