Comparison of AC v8.4 to v9.0

Years 7-8 band: Digital Technologies

Key	same/refined	removed new moved			
Note:					
•		nt descriptions only ay have been reordered to align with v9.0 content des	criptions.		
	F	Version 8.4	Version 9.0		
		Achievement standard	Achievement standard		
and define represented Students of define and constraint branching evaluate i innovation sources to communic	ed purposes. They ed, secured and pro- plan and manage of d decompose probles. Students design and iterations, and nformation systems and sustainability o model and create cating and collabora		By the end of Year 8 students develop and modify c decompose real-world problems, and evaluate altern stories and design criteria. Students acquire, interpr spreadsheets and represent data with integers and trace algorithms and implement them in a general-p language. Students select appropriate hardware for data is transmitted and secured in networks, and ide They select and use a range of digital tools efficient locate and share content; and to plan, collaborate of Students manage their digital footprint.	native solutions ag et and model data binary. They desig urpose programmi particular tasks, e entify cyber securit ly and responsibly n and manage pro	jainst user with ing xplain how y threats. to create, jects.
Strands	Sub-strands	Content descriptions	Content descriptions	Sub-strands	Strands
standing	Digital systems	investigate how data is transmitted and secured in wired, wireless and mobile networks, and how the specifications affect performance ACTDIK023	explain how hardware specifications affect performance and select appropriate hardware for particular tasks and workloads AC9TDI8K01	Digital systems	Knowledge and understanding
and understanding			investigate how data is transmitted and secured in wired and wireless networks including the internet AC9TDI8K02		
Knowledge a	Representation of data	investigate how digital systems represent text, image and audio data in binary ACTDIK024	investigate how digital systems represent text, image and audio data using integers AC9TDI8K03	Data representation	
Know			explain how and why digital systems represent integers in binary AC9TDI8K04		
	Collecting, managing and analysing data	acquire data from a range of sources and evaluate authenticity, accuracy and timeliness ACTDIP025	acquire, store and <mark>validate</mark> data from a range of sources using software, <u>including spreadsheets</u> and databases AC9TDI8P01	Acquiring, managing and analysing data	Processes and production skills
		analyse and visualise data using a range of software to create information, and use structured data to model objects or events ACTDIP026	analyse and visualise data using a range of software, <u>including spreadsheets and databases</u> , to draw conclusions and make predictions by identifying trends AC9TDI8P02		
			model and query the attributes of objects and events using structured data AC9TDI8P03		
	Investigating and defining	define and decompose real-world problems taking into account functional requirements and economic, environmental, social, technical and usability constraints ACTDIP027	define and decompose real world problems with design criteria and by creating user stories AC9TDI8P04	Investigating and defining	
	Generating and designing	design algorithms represented diagrammatically and in English, and trace algorithms to predict output for a given input and to identify errors ACTDIP029 design the user experience of a digital system, generating, evaluating and communicating alternative designs ACTDIP028	design algorithms involving <mark>nested control</mark> structures and represent them using <u>flowcharts</u> and <u>pseudocode</u> AC9TDI8P05	Generating and designing	
on skills			trace algorithms to predict output for a given input and to identify errors AC9TDI8P06		
roductio			design the user experience of a digital system AC9TDI8P07		
s and p			generate, modify, communicate and evaluate alternative designs AC9TDI8P08		
Processes and production skills	Producing and implementing	implement and modify programs with user interfaces involving branching, iteration and functions in a general-purpose programming language ACTDIP030	implement, modify and <u>debug</u> programs involving control structures and functions in a general purpose programming language AC9TDI8P09	Producing and implementing	
	Evaluating	evaluate how student solutions and existing information systems meet needs, are innovative, and take account of future risks and sustainability ACTDIP031	evaluate existing and student solutions against the design criteria, <u>user stories</u> and possible future impact AC9TDI8P10	Evaluating	
	Collaborating and managing		select and use a range of digital tools efficiently, including unfamiliar features, to create, locate and communicate content, consistently applying common conventions AC9TDI8P11	Collaborating and managing	
			select and use a range of digital tools efficiently and responsibly to share content online, and plan and manage individual and collaborative agile projects AC9TDI8P12		
			explain how multi factor authentication protects an account when the password is compromised and identify phishing and other cyber security threats AC9TDI8P13	Privacy and security	



For all Queensland schools



ACiQ v9.0

۲	Key	same/refined	removed	new	moved
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Note:

• the key applies to the content descriptions only

• v8.4 content descriptions may have been reordered to align with v9.0 content descriptions.

Version 8.4		Version 9.0		
		investigate and manage the digital footprint existing systems and student solutions collect and assess if the data is essential to their purpose AC9TDI8P14		

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