## **Comparison of AC v8.4 to v9.0**

Years 5–6 band: Digital Technologies

Key	same/refined	removed	new	moved					
Note:									
• the key a	pplies to the conte	nt descriptions only							
<ul> <li>v8.4 cont</li> </ul>	ent descriptions m	ay have been reorde	ered to align with v	/9.0 content des	Version 9.0				
Version 8.4					Version 9.0				
Achievement standard By the end of Year 6, students explain the fundamentals of digital system components (hardware, software and networks) and how digital systems are connected to form networks. They explain how digital systems use whole numbers as a basis for representing a variety of data types. Students define problems in terms of data and functional requirements and design solutions by developing algorithms to address the problems. They incorporate decision-making, repetition and user interface design into their designs and implement their digital solutions, including a visual program. They explain how information systems and their solutions meet needs and consider sustainability. Students manage the creation and communication of ideas and information in collaborative digital projects using validated data and agreed protocols.				By the end of Year 6 students develop and modify digital solutions, and define problems and evaluate solutions using user stories and design criteria. They process data and show how digital systems represent data. Students design algorithms involving complex branching and iteration and implement them as visual programs including variables. They securely access and use multiple digital systems and describe their components and how they interact to process and transmit data. Students select and use appropriate digital tools effectively to plan, create, locate and share content, and to collaborate, applying agreed conventions and behaviours. They identify their digital footprint and recognise its permanence.					
Strands	Sub-strands	Cont	tent descriptions	6	Content descriptions	Sub-strands	Strands		
Knowledge and understanding	Digital systems	examine the main systems and how t form networks to tr	components of co they may connect ransmit data ACT	ommon digital together to DIK014	investigate the main internal components of common digital systems and their function AC9TDI6K01 examine how digital systems form networks to	Digital systems	erstanding		
	Pepresentation	examine how whole numbers are used to			transmit data AC9TDI6K02	Data representation	Knowledge and unde		
	of data	represent all data in digital systems ACTDIK015			using numbers AC9TDI6K03				
					explore how data can be represented by off and on states (zeros and ones in binary) AC9TDI6K04 <b>Moved from Years 7–8 band</b>				
Processes and production skills	Collecting, managing and analysing data	acquire, store and and use a range of visualise data to cr	validate different f software to inter eate information	types of data, pret and ACTDIP016			gating fining		
	Investigating and defining	define problems in requirements draw problems ACTDIP(	terms of data an ing on previously 017	d functional solved	define problems <mark>with given or co-developed</mark> design criteria and by <u>creating user stories</u> AC9TDI6P01	Investigating and defining			
	Generating and designing	design, modify and follow simple algorithms involving sequences of steps, branching, and		jorithms hing, and	design algorithms involving multiple alternatives (branching) and iteration AC9TDI6P02	Generating and designing			
		iteration (repetition) ACTDIP019			design a user interface for a digital system AC9TDI6P03	_	skills		
		design a user interface for a digital system ACTDIP018			generate, modify, communicate and evaluate designs AC9TDI6P04				
	Producing and implementing	implement digital s involving branching input ACTDIP020	olutions as visua g, iteration (repeti	programs tion), and user	implement algorithms as visual programs involving control structures, variables and input AC9TDI6P05	Producing and implementing Evaluating	esses and production :		
	Evaluating	explain how studer information system current and future ACTDIP021	nt solutions and e ns are sustainable local community i	xisting and meet needs	evaluate existing and student solutions against the design criteria and user stories and their broader community impact AC9TDI6P06				
	Collaborating and managing	plan, create and communicate ideas and information, including collaboratively online, applying agreed ethical, social and technical protocols ACTDIP022			select and use appropriate digital tools effectively to create, locate and communicate content, applying common conventions AC9TDI6P07	Collaborating and managing	Proc		
					select and use appropriate digital tools effectively to share content online, plan tasks and collaborate on projects, demonstrating agreed behaviours AC9TDI6P08				
					access multiple personal accounts using unique passphrases and explain the risks of password re- use AC9TDI6P09	Privacy and security			
					explain the creation and permanence of their digital footprint and consider privacy when collecting user data AC9TDI6P10				

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