	F	1-2	3-4	5-6	7-8	9-10
Digital systems	AC9TDIFK01 recognise and explore digital systems (hardware and software) for a purpose	AC9TDI2K01 identify and explore digital systems and their components for a purpose	AC9TDI4K01 explore and describe a range of digital systems and their peripherals for a variety of purposes	AC9TDI6K01 investigate the main internal components of common digital systems and their function	AC9TDI8K01 explain how hardware specifications affect performance and select appropriate hardware for particular tasks and workloads	AC9TDI10K01 investigate how hardware and software manage, control and secure access to data in networked digital systems
			AC9TDI4K02 explore transmitting different types of data between digital systems	AC9TDI6K02 examine how digital systems form networks to transmit data	AC9TDI8K02 investigate how data is transmitted and secured in wired and wireless networks including the internet	
Data Representation	AC9TDIFK02 represent data as objects, pictures and symbols	AC9TDI2K02 represent data as pictures, symbols, numbers and words	AC9TDI4K03 recognise different types of data and explore how the same data can be represented differently depending on the purpose	AC9TDI6K03 explain how digital systems represent all data using numbers AC9TDI6K04 explore how data can be	AC9TDI8K03 investigate how digital systems represent text, image and audio data using integers AC9TDI8K04 explain how and why digital systems	AC9TDI10K02 represent documents online as content (text), structure (markup) and presentation (styling) and explain why such representations are important
				represented by off and on states (zeros and ones in binary)	represent integers in binary	AC9TDI10K03 investigate simple data compression techniques
Acquiring, managing and analysing data					AC9TDI8P01 acquire, store and validate data from a range of sources using software, including spreadsheets and databases AC9TDI8P02	AC9TDI10P01 develop techniques to acquire, store and validate data from a range of sources using software, including spreadsheets and databases
					analyse and visualise data using a range of software, including spreadsheets and databases, to draw conclusions and make predictions by identifying trends	AC9TDI10P02 analyse and visualise data interactively using a range of software, including spreadsheets and databases, to draw conclusions and make predictions by identifying trends and outliers
					AC9TDI8P03 model and query the attributes of objects and events using structured data	AC9TDI10P03 model and query entities and their relationships using
Investigating and defining		AC9TDI2P01 investigate simple problems for known users that can be solved with digital systems	AC9TDI4P01 define problems with given design criteria and by co-creating user stories		AC9TDI8P04 define and decompose real-world problems with design criteria and by creating user stories	AC9TDI10P04 define and decompose real-world problems with design criteria and by interviewing stakeholders to create user stories
Generating and designing		AC9TDI2P02 follow and describe algorithms involving a sequence of steps, branching (decisions) and iteration (repetition)	AC9TDI4P02 follow and describe algorithms involving sequencing, comparison operators (branching) and iteration	AC9TDI6P02 design algorithms involving multiple alternatives (branching) and iteration	AC9TDI8P05 design algorithms involving nested control structures and represent them using flowcharts and pseudocode	AC9TDI10P05 design algorithms involving logical operators and represent them as flowcharts and pseudocode
		(CPCMINOTY)	AC9TDI4P03 generate, communicate and compare designs	AC9TDI6P03 design a user interface for a digital system	AC9TDI8P06 trace algorithms to predict output for a given input and to identify errors	AC9TDI10P06 validate algorithms and programs by comparing their output against a range of test cases
				AC9TDI6P04 generate, modify, communicate and evaluate designs	AC9TDI8P07 design the user experience of a digital system AC9TDI8P08	AC9TDI10P07 design and prototype the user experience of a digital system
					generate, modify, communicate and evaluate alternative designs	AC9TDI10P08 generate, modify, communicate and critically evaluate alternative designs
Producing and implementing			AC9TDI4P04 implement simple algorithms as visual programs involving control structures and input	AC9TDI6P05 implement algorithms as visual programs involving control structures, variables and input	AC9TDI8P09 implement, modify and debug programs involving control structures and functions in a general-purpose programming language	AC9TDI10P09 implement, modify and debug modular programs, applying selected algorithms and data structures, including in an object- oriented programming language
Evaluating		AC9TDI2P03 discuss how existing digital systems satisfy identified needs for known users	AC9TDI4P05 discuss how existing and student solutions satisfy the design criteria and user stories	AC9TDI6P06 evaluate existing and student solutions against the design criteria and user stories and their broader community impact	AC9TDI8P10 evaluate existing and student solutions against the design criteria, user stories and possible future impact	AC9TDI10P10 evaluate existing and student solutions against the design criteria, user stories, possible future impact and opportunities for enterprise
Collaborating and managing		AC9TDI2P04 use the basic features of common digital tools to create, locate and communicate content AC9TDI2P05	AC9TDI4P06 use the core features of common digital tools to create, locate and communicate content, following agreed conventions	AC9TDI6P07 select and use appropriate digital tools effectively to create, locate and communicate content, applying common conventions	AC9TDI8P11 select and use a range of digital tools efficiently, including unfamiliar features, to create, locate and communicate content, consistently applying common conventions	AC9TDI10P11 select and use emerging digital tools and advanced features to create and communicate interactive content for a diverse audience
		use the basic features of common digital tools to share content and collaborate demonstrating agreed behaviours, guided by trusted adults			AC9TDI8P12 select and use a range of digital tools efficiently and responsibly to share content online, and plan and manage individual and collaborative agile projects	AC9TDI10P12 use simple project management tools to plan and manage individual and collaborative agile projects, accounting for risks and responsibilities
Privacy and security	AC9TDIFP01 identify some data that is personal and owned by them	AC9TDI2P06 access their school account with a recorded username and password AC9TDI2P07 discuss that some websites and	AC9TDI4P08 access their school account using a memorised password and explain why it should be easy to remember, but hard for others to guess	AC9TDI6P09 access multiple personal accounts using unique passphrases and explain the risks of password re-use	AC9TDI8P13 explain how multi-factor authentication protects an account when the password is compromised and identify phishing and other cyber security threats	AC9TDI10P13 develop cyber security threat models, and explore a software, user or software supply chain vulnerability AC9TDI10P14
		apps store their personal data online	AC9TDI4P09 identify what personal data is stored and shared in their online accounts and discuss any associated risks	AC9TDI6P10 explain the creation and permanence of their digital footprint and consider privacy when collecting user data	AC9TDI8P14 investigate and manage the digital footprint existing systems and student solutions collect and assess if the data is essential to their purpose	apply the Australian Privacy Principles to critique and manage the digital footprint that existing systems and student solutions collect