Prep–Year 6 Digital Technologies

Australian Curriculum Version 9.0: Sequence of content descriptions

The following table provides a sequence of content descriptions aligned to the strands and sub-strands for Prep–Year 6 Digital Technologies. Content descriptions identify the learning area's essential knowledge, understanding and skills. This resource can be used to support curriculum planning. A similar resource is available for Years 7–10 Digital Technologies.

Strand: Knowledge and understanding

Sub-strands	Prep	Years 1–2 band	Years 3–4 band	Years 5–6 band
Digital systems	recognise and explore digital systems (hardware and software) for a purpose AC9TDIFK01	identify and explore digital systems and their components for a purpose AC9TDI2K01	explore and describe a range of digital systems and their peripherals for a variety of purposes AC9TDI4K01	investigate the main internal components of common digital systems and their function AC9TDI6K01
			explore transmitting different types of data between digital systems AC9TDI4K02	examine how digital systems form networks to transmit data AC9TDI6K02
Data representation	represent data as objects, pictures and symbols AC9TDIFK02	represent data as pictures, symbols, numbers and words AC9TDI2K02	recognise different types of data and explore how the same data can be represented differently depending on the purpose AC9TDI4K03	explain how digital systems represent all data using numbers AC9TDI6K03
				explore how data can be represented by off and on states (zeros and ones in binary) AC9TDI6K04

Strand: Processes and production skills

Sub-strands	Prep	Years 1–2 band	Years 3–4 band	Years 5–6 band
Investigating and defining		investigate simple problems for known users that can be solved with digital systems AC9TDI2P01	define problems with given design criteria and by co-creating user stories AC9TDI4P01	define problems with given or co-developed design criteria and by creating user stories AC9TDI6P01
Generating and designing		follow and describe algorithms involving a sequence of steps, branching (decisions) and iteration (repetition) AC9TDI2P02	follow and describe algorithms involving sequencing, comparison operators (branching) and iteration AC9TDI4P02	design algorithms involving multiple alternatives (branching) and iteration AC9TDI6P02
				design a user interface for a digital system AC9TDI6P03
			generate, communicate and compare designs AC9TDI4P03	generate, modify, communicate and evaluate designs AC9TDI6P04
Producing and implementing			implement simple algorithms as visual programs involving control structures and input AC9TDI4P04	implement algorithms as visual programs involving control structures, variables and input AC9TDI6P05
Evaluating		discuss how existing digital systems satisfy identified needs for known users AC9TDI2P03	discuss how existing and student solutions satisfy the design criteria and user stories AC9TDI4P05	evaluate existing and student solutions against the design criteria and user stories and their broader community impact AC9TDI6P06

Strand: Processes and production skills				
Sub-strands	**Prep**	**Years 1–2 band**	**Years 3–4 band**	**Years 5–6 band**
Collaborating and managing		use the basic features of common digital tools to create, locate and communicate content AC9TDI2P04	use the core features of common digital tools to create, locate and communicate content, following agreed conventions AC9TDI4P06	select and use appropriate digital tools effectively to create, locate and communicate content, applying common conventions AC9TDI6P07
		use the basic features of common digital tools to share content and collaborate demonstrating agreed behaviours, guided by trusted adults AC9TDI2P05	use the core features of common digital tools to share content, plan tasks, and collaborate, following agreed behaviours, supported by trusted adults AC9TDI4P07	select and use appropriate digital tools effectively to share content online, plan tasks and collaborate on projects, demonstrating agreed behaviours AC9TDI6P08
Privacy and security	identify some data that is personal and owned by them AC9TDIFP01	access their school account with a recorded username and password AC9TDI2P06	access their school account using a memorised password and explain why it should be easy to remember, but hard for others to guess AC9TDI4P08	access multiple personal accounts using unique passphrases and explain the risks of password re-use AC9TDI6P09
		discuss that some websites and apps store their personal data online AC9TDI2P07	identify what personal data is stored and shared in their online accounts and discuss any associated risks AC9TDI4P09	explain the creation and permanence of their digital footprint and consider privacy when collecting user data AC9TDI6P10

More information

If you would like more information, please visit the QCAA website www.qcaa.qld.edu.au. Alternatively, email the K–10 Curriculum and Assessment branch at australiancurriculum@qcaa.qld.edu.au.