

# Prep–Year 8 Technologies

## Australian Curriculum Version 9.0: Sequence of achievement standards aspects and related content descriptions

This resource provides a sequence of achievement standards aspects, with related content descriptions, for Prep–Year 8 Technologies, organised by strands. Separate resources are available for the subject-specific (Design and Technologies and Digital Technologies) achievement standards.

By breaking each achievement standard into discrete aspects, the increasing complexity of the achievement standards can be seen across Prep–Year 8. This supports teachers to identify the knowledge, understanding and skills that come before and after the enrolled year level/band.

When planning teaching, learning and assessment, teachers can use this resource to:

- plan for the range of students within a single year level or band
- determine appropriate curriculum access points for all students
- better understand aspects of achievement standards through consideration of where they are introduced, their progression and where they conclude.

The following key has been used to assist teachers to identify the sub-strand for each content description code.

Key	Design and Technologies (Knowledge and understanding)	Digital Technologies (Knowledge and understanding)	Designing and making (Design and Technologies only)	Investigating and defining	Generating and designing	Producing and implementing	Evaluating	Collaborating and managing	Acquiring, managing and analysing data (Digital Technologies only)	Privacy and security (Digital Technologies only)
-----	--	---	--	----------------------------	--------------------------	----------------------------	------------	----------------------------	---	---

	Prep Students:	Year 1–2 band Students:	Years 3–4 band Students:	Years 5–6 band Students:	Years 7–8 band Students:	Years 9–10 band Students:
Knowledge and understanding	<p>identify familiar products, services and environments and develop familiarity with digital systems, using them for a purpose</p> <p>AC9TDEFK01 AC9TDIFK01</p>	<p>describe the purpose of familiar products, services and environments, including digital systems</p> <p>AC9TDE2K01 AC9TDI2K01</p> <p>for each of the 2 prescribed technologies contexts they identify the features and uses of technologies and create designed solutions</p> <p>AC9TDE2K02 AC9TDE2K03 AC9TDE2K04</p>	<p>describe how people design products, services and environments to meet the needs of people, including sustainability</p> <p>AC9TDE4K01</p>	<p>explain how people design products, services and environments to meet the needs of communities, including sustainability</p> <p>AC9TDEFK01</p>	<p>explain how people design, innovate and produce products, services and environments for preferred futures</p> <p>AC9TDE8K01 AC9TDE8K02</p>	<p>These aspects of the achievement standards and related content descriptions conclude in Year 8.</p>
	<p>show how to represent data using objects, pictures and symbols and identify examples of data that is owned by them*</p> <p>AC9TDIFK02 AC9TDIFP01</p>	<p>represent and process data in different ways and follow and describe basic algorithms involving a sequence of steps and branching to show how simple digital solutions meet a need for known users*</p> <p>AC9TDI2K02 AC9TDI2P02 AC9TDI2P03</p>	<p>for each of the 2 prescribed technologies contexts they describe the features and uses of technologies and create designed solutions*</p> <p>AC9TDE4K02 AC9TDE4K03 AC9TDE4K04 AC9TDE4P01</p>	<p>for each of the 3 prescribed technologies contexts students explain how the features of technologies impact on design decisions and they create designed solutions*</p> <p>AC9TDE6K02 AC9TDE6K03 AC9TDE6K04 AC9TDE6K05 AC9TDE6P01</p>	<p>for each of the 4 prescribed technologies contexts students explain how the features of technologies impact on design decisions, and create designed solutions based on analysis of needs or opportunities*</p> <p>AC9TDE8K03 AC9TDE8K04 AC9TDE8K05 AC9TDE8K06 AC9TDE8P01</p>	

	Prep Students:	Year 1–2 band Students:	Years 3–4 band Students:	Years 5–6 band Students:	Years 7–8 band Students:	Years 9–10 band Students:
			process and represent data for different purposes, follow and describe simple algorithms involving branching and iteration, and implement them as visual programs* <a href="#">AC9TDI4K03</a> <a href="#">AC9TDI4P02</a> <a href="#">AC9TDI4P04</a>	process data and show how digital systems represent data, design algorithms involving complex branching and iteration, and implement them as visual programs including variables* <a href="#">AC9TDI6K03</a> <a href="#">AC9TDI6K04</a> <a href="#">AC9TDI6P02</a> <a href="#">AC9TDI6P05</a>	acquire, interpret and model with spreadsheets and represent data with integers and binary* <a href="#">AC9TDI8K03</a> <a href="#">AC9TDI8K04</a> <a href="#">AC9TDI8P01</a> <a href="#">AC9TDI8P02</a> <a href="#">AC9TDI8P03</a>	
Processes and production skills	create, communicate and choose design ideas <a href="#">AC9TDEFP01</a>  follow steps and use materials and equipment to safely make a designed solution for a school-selected context <a href="#">AC9TDEFP01</a>	select design ideas based on their personal preferences <a href="#">AC9TDE2P03</a>    access and use the basic features of common digital tools to create, locate and share content, and collaborate and communicate design ideas using models and drawings <a href="#">AC9TDE2P01</a> <a href="#">AC9TDI2P04</a> <a href="#">AC9TDI2P05</a> <a href="#">AC9TDI2P06</a>	securely access and use digital systems and their peripherals for a range of purposes, including transmitting data* <a href="#">AC9TDI4K01</a> <a href="#">AC9TDI4K02</a> <a href="#">AC9TDI4P08</a>  select design ideas against design criteria <a href="#">AC9TDE4P04</a> <a href="#">AC9TDI4P01</a> <a href="#">AC9TDI4P05</a>   communicate design ideas using models and drawings including annotations and symbols <a href="#">AC9TDE4P02</a> <a href="#">AC9TDI4P03</a>	securely access and use multiple digital systems and describe their components and how they interact to process and transmit data* <a href="#">AC9TDI6K01</a> <a href="#">AC9TDI6K02</a> <a href="#">AC9TDI6P09</a>  select and justify design ideas and solutions against design criteria <a href="#">AC9TDE6P04</a> <a href="#">AC9TDI6P01</a> <a href="#">AC9TDI6P03</a> <a href="#">AC9TDI6P06</a>   share and communicate ideas or content to an audience using technical terms, graphical representation techniques and appropriate digital tools <a href="#">AC9TDE6P02</a> <a href="#">AC9TDI6P04</a> <a href="#">AC9TDI6P07</a> <a href="#">AC9TDI6P08</a>	select appropriate hardware for particular tasks, explain how data is transmitted and secured in networks, and identify cyber security threats* <a href="#">AC9TDI8K01</a> <a href="#">AC9TDI8K02</a> <a href="#">AC9TDI8P13</a>  create and adapt design ideas, processes and solutions, and justify their decisions against developed design criteria that include sustainability <a href="#">AC9TDE8P02</a> <a href="#">AC9TDE8P04</a> <a href="#">AC9TDI8P04</a> <a href="#">AC9TDI8P07</a> <a href="#">AC9TDI8P10</a>  communicate design ideas and solutions to audiences using technical terms and graphical representation techniques, including using digital tools <a href="#">AC9TDE8P02</a> <a href="#">AC9TDI8P08</a>	

Prep Students:	Year 1–2 band Students:	Years 3–4 band Students:	Years 5–6 band Students:	Years 7–8 band Students:	Years 9–10 band Students:
	safely produce designed or digital solutions and recognise that digital tools may store their personal data online AC9TDE2P02 AC9TDE2P04 AC9TDI2P07	plan and sequence steps and use technologies and techniques to safely produce designed solutions AC9TDE4P03 AC9TDE4P05  use the core features of common digital tools to plan, create, locate and share content, and to collaborate, following agreed behaviours AC9TDI4P06 AC9TDI4P07	develop project plans, including production processes, and select technologies and techniques to safely produce designed or digital solutions AC9TDE6P03 AC9TDE6P05 AC9TDI6P07 AC9TDI6P08	use a range of digital tools to individually and collaboratively document and manage production processes to safely and responsibly produce designed or digital solutions for the intended purpose AC9TDE8P03 AC9TDE8P05 AC9TDI8P11 AC9TDI8P12  design and trace algorithms; and implement them in a general-purpose programming language AC9TDI8P05 AC9TDI8P06 AC9TDI8P09	
		identify their personal data stored online and its risks AC9TDI4P09	identify their digital footprint and recognise its permanence AC9TDI6P10	manage their digital footprint AC9TDI8P14	

\* indicates achievement standards aspect relating to both the Knowledge and understanding and Processes and production skills strands

## More information

If you would like more information, please visit the QCAA website [www.qcaa.qld.edu.au](http://www.qcaa.qld.edu.au) or email the K–10 Curriculum and Assessment Branch at [australiancurriculum@qcaa.qld.edu.au](mailto:australiancurriculum@qcaa.qld.edu.au).

 © State of Queensland (QCAA) 2025

**Licence:** <https://creativecommons.org/licenses/by/4.0> | **Copyright notice:** [www.qcaa.qld.edu.au/copyright](http://www.qcaa.qld.edu.au/copyright) — lists the full terms and conditions, which specify certain exceptions to the licence. | **Attribution** (include the link): © State of Queensland (QCAA) 2025 [www.qcaa.qld.edu.au/copyright](http://www.qcaa.qld.edu.au/copyright).

Unless otherwise indicated, material from Australian Curriculum is © ACARA 2010–present, licensed under CC BY 4.0. For the latest information and additional terms of use, please check the [Australian Curriculum website](http://www.australiancurriculum.edu.au) and its [copyright notice](http://www.australiancurriculum.edu.au/copyright).