Summary: Technologies

ACiQ|v9.0

Changes in Australian Curriculum Version 9.0

About the learning area

Section	Revision
Rationale	• reviewed to include an enhanced reference to STEM
Aims	• limited editorial changes
Structure	• limited editorial changes
Core concepts	• previously known as key ideas • subject-specific core concepts are included for the individual subjects of Digital Technologies and Design and Technologies

Key considerations	• new section addressing
	  – protocols for engaging First Nations Australians
	  – meeting the needs of diverse learners
	  – safety
	  – privacy and security
	  – copyright
	  – intellectual property
	  – designing for safety and equity

Key connections	• new section addressing
	  – general capabilities
	  – cross-curriculum priorities
	  – learning area connections

Resources	• new section
	• reference to downloads including
	  – *About the learning area*
	  – *Curriculum content in P–6 and 7–10*
	  – *Scope and sequence*
	  – *Glossary*
	  – *Comparative information about v8.4 and v9.0*

Curriculum elements

Section	Revision
Level descriptions	• reviewed and updated to align with revised content descriptions • added suggestion to develop key connections across Technologies subjects and other learning areas
Achievement standards	• achievement standard structure modified to include both strands in one paragraph • reviewed to align with revised content descriptions and added sub-strand • changes to cognitive verbs across all bands

Content structure (Digital Technologies)	• Prep–Year 2 band separated into Foundation (Prep) and Years 1–2 band • additional sub-strand Privacy and security in Digital Technologies • renamed sub-stand from Collecting, managing and analysing data to Acquiring, managing and analysing data • renamed sub-stand from Representation of data to Data representation

Content descriptions (Digital Technologies)

• Privacy and security sub-strand content to all bands
• various content descriptions separated and elaborated on
• reviewed and refined language of content descriptions, including new terminology

		Bands	1–2	3–4	5–6	7–8	9–10
Added	**Terminology**		• branching • iteration • personal data	• design criteria • user stories • comparison • operators • iteration • control structures • personal data	• design criteria • user stories • control structures • variables • personal data • digital footprint	• design criteria • user stories • integers • control structures • flowcharts • pseudocode • agile projects • multi-factor authentication • digital footprint • phishing • cyber security threats	• design criteria • user stories • logical operators • flowcharts • pseudocode • agile projects • cyber security threats • digital footprint • supply chain vulnerability

Moved	• generate, communicate and compare designs content description in Generating and designing sub-strand has been realigned to Years 3–4 band from Years 5–6 band • explore how data can be represented by off and on states (zeros and ones in binary) content description in Data representation sub-strand has been realigned to Years 5–6 band from Years 7–8 band

Removed	• Collecting, managing and analysing data sub-strand has been removed from Prep–Year 6 curriculum content

Content elaborations (Digital Technologies)	• multiple additions, deletions and refinements to reflect content refinement

Content structure (Design and Technologies)	• Prep–Year 2 band separated into bands — Foundation (Prep) and Years 1–2 band • Foundation sub-strand renamed to Designing and making • number of Technologies contexts in Prep, Years 1–2 and 3–4 bands have been reduced as a result of combining contexts

	Prep	1–2	3–4	5–6	7–8	9–10
	School-selected context	• Engineering principles and systems • Materials and technologies specialisation	• Engineering principles and systems • Materials and technologies specialisation	• Engineering principles and systems • Materials and technologies specialisation	• Engineering principles and systems • Materials and technologies specialisation	• Engineering principles and systems • Materials and technologies specialisation

		• Food and fibre production • Food specialisations	• Food and fibre production • Food specialisations	• Food and fibre production • Food specialisations	• Food and fibre production • Food specialisations	• Food and fibre production • Food specialisations
Content descriptions (Design and Technologies)	**Added**	various content descriptions split and elaborated or combined to refine • Generating and designing sub-strand includes the use of digital tools from Years 1–2 band • terminology change in Years 3–4 band from 'criteria for success' to 'design criteria' • Collaborating and managing sub-strand includes development of project plans from Years 7–8 band • Technologies and society sub-strand includes the – impact of innovation on designed solutions from Years 7–8 band – consideration of security factors in Years 9–10 band				
	Removed	• Investigating and defining sub-strand from Years 1–2 band				
Content elaborations (Design and Technologies)	• multiple additions, deletions and refinements to reflect content refinement • connections to First Nations Australians are reflected in Knowledge and understanding strand and Investigating and defining sub-strand content elaborations					