

Prep–Year 10 Design and 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 10 Design and Technologies, organised by strands. Separate resources are available for the Digital Technologies and Technologies achievement standards.

By breaking each achievement standard into discrete aspects and including content descriptions, the increasing complexity of the achievement standards can be seen across Prep–Year 10. 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	Technologies and society	Technologies context: Engineering principles and systems	Technologies context: Food and fibre production	Technologies context: Food specialisations	Technologies context: Materials and technologies specialisations	
	Designing and making (Prep only)	Investigating and defining	Generating and designing	Producing and implementing (Years 1–10)	Evaluating	Collaborating and managing

	Prep Students:	Years 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	identify familiar products, services and environments AC9TDEFK01	describe the purpose of familiar products, services and environments AC9TDE2K01	describe how people design products, services and environments to meet the needs of people, including sustainability AC9TDE4K01	explain how people design products, services and environments to meet the needs of communities, including sustainability AC9TDE6K01	explain how people design, innovate and produce products, services and environments for preferred futures AC9TDE8K01 AC9TDE8K02	explain how people consider factors that impact on design decisions and the technologies used to design and produce products, services and environments for sustainable living AC9TDE10K01 explain the contribution of innovation, enterprise skills and emerging technologies to global preferred futures AC9TDE10K02
		For each of the 2 prescribed technologies contexts they describe the features and uses of technologies and create designed solutions AC9TDE2K02 AC9TDE2K03 AC9TDE2K04	For each of the 2 prescribed technologies contexts they describe the features and uses of technologies and create designed solutions AC9TDE4K02 AC9TDE4K03 AC9TDE4K04 AC9TDE4P01	For each of the 3 prescribed technologies contexts they explain how the features of technologies impact on design decisions and they create designed solutions AC9TDE6K02 AC9TDE6K03 AC9TDE6K04 AC9TDE6K05 AC9TDE6P01	For each of the 4 prescribed technologies contexts they explain how the features of technologies impact on design decisions, and create designed solutions based on analysis of needs or opportunities AC9TDE8K03 AC9TDE8K04 AC9TDE8K05 AC9TDE8K06 AC9TDE8P01	For one or more of the technologies contexts, students explain the features of technologies and their appropriateness for purpose, and create designed solutions based on an analysis of needs or opportunities AC9TDE10K03 AC9TDE10K04 AC9TDE10K05 AC9TDE10K06 AC9TDE10P01

	Prep Students:	Years 1–2 band Students:	Years 3–4 band Students:	Years 5–6 band Students:	Years 7–8 band Students:	Years 9–10 band Students:
Processes and production skills	create a designed solution for a school-selected context AC9TDEFP01	communicate design ideas using models and drawings and follow sequenced steps to safely produce designed solutions AC9TDE2P01 AC9TDE2P02 AC9TDE2P04	communicate design ideas using models and drawings including annotations and symbols AC9TDE4P02	communicate design ideas to an audience using technical terms and graphical representation techniques AC9TDE6P02	communicate design ideas and solutions to audiences using technical terms and graphical representation techniques, including using digital tools AC9TDE8P02	communicate design ideas, processes and solutions to a range of audiences, including using digital tools AC9TDE10P02
	create, communicate and choose design ideas AC9TDEFP01		plan and sequence steps and use technologies and techniques to safely produce designed solutions AC9TDE4P03 AC9TDE4P05	develop project plans, including production processes, and select technologies and techniques to safely produce designed solutions AC9TDE6P03 AC9TDE6P05	independently and collaboratively document and manage production processes to safely produce designed solutions AC9TDE8P03 AC9TDE8P05	select and use technologies skilfully and safely to produce designed solutions AC9TDE10P03 independently and collaboratively develop and apply production and project management plans, adjusting processes when necessary AC9TDE10P05
	follow steps and use materials and equipment to safely make a designed solution AC9TDEFP01	select design ideas based on their personal preferences AC9TDE2P03	select design ideas against design criteria AC9TDE4P04	select and justify design ideas and solutions against design criteria that include sustainability AC9TDE6P04	create and adapt design ideas, processes and solutions, and justify their decisions against developed design criteria that include sustainability AC9TDE8P02 AC9TDE8P04	create, adapt and refine design ideas, processes and solutions and justify their decisions against developed design criteria that include sustainability AC9TDE10P02 AC9TDE10P04

More information

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

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