

This resource shows alignment between aspects of the achievement standard and relevant content descriptions for Years 7–8 band. A similar resource is available for Prep/other bands.

The Australian Curriculum (AC) v9.0 code for each content description includes an element indicating the strand it is organised by, e.g. AC9TDE8K01 indicates Knowledge and understanding strand.

Key to content description codes: Design and Technologies	
e.g. AC9TDE8K01	Strands:
Australian Curriculum (AC)	• K — Knowledge and understanding
Version 9 (9)	• P — Processes and production skills
Technologies Learning area (T)	
Design and Technologies (DE)	
Years 7–8 band (8)	
Strand (K, P)	
Content description number (##)	

Years 7–8 band Australian Curriculum: Design and Technologies achievement standard

By the end of Year 8 students explain how people design, innovate and produce products, services and environments for preferred futures. 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. Students create and adapt design ideas, processes and solutions, and justify their decisions against developed design criteria that include sustainability. They communicate design ideas and solutions to audiences using technical terms and graphical representation techniques, including using digital tools. They independently and collaboratively document and manage production processes to safely produce designed solutions.

Achievement standard aspect	Relevant content description/s	AC v9.0 code
By the end of Year 8	Students learn to:	
Students explain how people design, innovate and produce products, services and environments for preferred futures.	• analyse how people in design and technologies occupations consider ethical and sustainability factors to design and produce products, services and environments	AC9TDE8K01
	• analyse the impact of innovation and the development of technologies on designed solutions for global preferred futures	AC9TDE8K02
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.	• analyse how force, motion and energy are used to manipulate and control engineered systems	AC9TDE8K03
	• analyse how food and fibre are produced in managed environments and how these can become sustainable	AC9TDE8K04
	• analyse how properties of foods determine preparation and presentation techniques when designing solutions for healthy eating	AC9TDE8K05
	• analyse how characteristics and properties of materials, systems, components, tools and equipment can be combined to create designed solutions	AC9TDE8K06
	• analyse needs or opportunities for designing, and investigate and select materials, components, tools, equipment and processes to create designed solutions	AC9TDE8P01
They create and adapt design ideas, processes and solutions, and justify their decisions against developed design criteria that include sustainability.	• generate, test, iterate and communicate design ideas, processes and solutions using technical terms and graphical representation techniques, including using digital tools	AC9TDE8P02
	• develop design criteria collaboratively including sustainability to evaluate design ideas, processes and solutions	AC9TDE8P04
They communicate design ideas and solutions to audiences using technical terms and graphical representation techniques, including using digital tools.	• generate, test, iterate and communicate design ideas, processes and solutions using technical terms and graphical representation techniques, including using digital tools	AC9TDE8P02
They independently and collaboratively document and manage production processes to safely produce designed solutions.	• select, justify and use suitable materials, components, tools, equipment, skills and processes to safely make designed solutions	AC9TDE8P03
	• develop project plans to individually and collaboratively manage time, cost and production of designed solutions.	AC9TDE8P05

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.

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