

Years 7–10 Design and 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 Years 7–10 Design and 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 Prep–Year 6 Design and Technologies.

Strand: Knowledge and understanding		
Sub-strands	Years 7–8 band	Years 9–10 band
Technologies and society	analyse how people in design and technologies occupations consider ethical and sustainability factors to design and produce products, services and environments AC9TDE8K01	analyse how people in design and technologies occupations consider ethical, security and sustainability factors to innovate and improve products, services and environments AC9TDE10K01
	analyse the impact of innovation and the development of technologies on designed solutions for global preferred futures AC9TDE8K02	analyse the impact of innovation, enterprise and emerging technologies on designed solutions for global preferred futures AC9TDE10K02
Technologies context: Engineering principles and systems	analyse how force, motion and energy are used to manipulate and control engineered systems AC9TDE8K03	analyse and make judgements on how the characteristics and properties of materials are combined with force, motion and energy to control engineered systems AC9TDE10K03
Technologies context: Food and fibre production	analyse how food and fibre are produced in managed environments and how these can become sustainable AC9TDE8K04	analyse and make judgements on the ethical, secure and sustainable production and marketing of food and fibre enterprises AC9TDE10K04
Technologies context: Food specialisations	analyse how properties of foods determine preparation and presentation techniques when designing solutions for healthy eating AC9TDE8K05	analyse and make judgements on how the sensory and functional properties of food influence the design and preparation of sustainable food solutions for healthy eating AC9TDE10K05
Technologies context: Materials and technologies specialisation	analyse how characteristics and properties of materials, systems, components, tools and equipment can be combined to create designed solutions AC9TDE8K06	analyse and make judgements on how characteristics and properties of materials, systems, components, tools and equipment can be combined to create designed solutions AC9TDE10K06

Strand: Processes and production skills		
Sub-strands	Years 7–8 band	Years 9–10 band
Investigating and defining	analyse needs or opportunities for designing, and investigate and select materials, components, tools, equipment and processes to create designed solutions AC9TDE8P01	analyse needs or opportunities for designing; develop design briefs; and investigate, analyse and select materials, systems, components, tools and equipment to create designed solutions AC9TDE10P01
Generating and designing	generate, test, iterate and communicate design ideas, processes and solutions using technical terms and graphical representation techniques, including using digital tools AC9TDE8P02	apply innovation and enterprise skills to generate, test, iterate and communicate design ideas, processes and solutions, including using digital tools AC9TDE10P02
Producing and implementing	select, justify and use suitable materials, components, tools, equipment, skills and processes to safely make designed solutions AC9TDE8P03	select, justify, test and use suitable technologies, skills and processes, and apply safety procedures to safely make designed solutions AC9TDE10P03
Evaluating	develop design criteria collaboratively including sustainability to evaluate design ideas, processes and solutions AC9TDE8P04	develop design criteria independently including sustainability to evaluate design ideas, processes and solutions AC9TDE10P04
Collaborating and managing	develop project plans to individually and collaboratively manage time, cost and production of designed solutions AC9TDE8P05	develop project plans for intended purposes and audiences to individually and collaboratively manage projects, taking into consideration time, cost, risk, processes and production of designed solutions AC9TDE10P05

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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