

Comparison of AC v8.4 to v9.0

Years 5–6 band: Design and Technologies

Key	same/refined	removed	new	moved
-----	--------------	---------	-----	-------

Note:

- the key applies to the content descriptions only
- v8.4 content descriptions may have been reordered to align with v9.0 content descriptions.

Version 8.4			Version 9.0		
Achievement standard			Achievement standard		
<p>By the end of Year 6, students describe competing considerations in the design of products, services and environments, taking into account sustainability. They describe how design and technologies contribute to meeting present and future needs. Students explain how the features of technologies impact on designed solutions for each of the prescribed technologies contexts.</p> <p>Students create designed solutions for each of the prescribed technologies contexts suitable for identified needs or opportunities. They suggest criteria for success, including sustainability considerations, and use these to evaluate their ideas and designed solutions. They combine design ideas and communicate these to audiences using graphical representation techniques and technical terms. Students record project plans including production processes. They select and use appropriate technologies and techniques correctly and safely to produce designed solutions.</p>			<p>By the end of Year 6 students explain how people design products, services and environments to meet the needs of communities, including sustainability. For each of the 3 prescribed technologies contexts they explain how the features of technologies impact on design decisions and they create designed solutions. Students select and justify design ideas and solutions against design criteria that include sustainability. They communicate design ideas to an audience using technical terms and graphical representation techniques. Students develop project plans, including production processes, and select technologies and techniques to safely produce designed solutions.</p>		
Strands	Sub-strands	Content descriptions	Content descriptions	Sub-strands	Strands
Knowledge and understanding	Technologies and society	examine how people in design and technologies occupations address competing considerations, including sustainability in the design of products, services, and environments for current and future use ACTDEK019	explain how people in design and technologies occupations consider competing factors including sustainability in the design of products, services and environments AC9TDE6K01	Technologies and society	Knowledge and understanding
	Engineering principles and systems	investigate how electrical energy can control movement, sound or light in a designed product or system ACTDEK020	explain how electrical energy can be transformed into movement, sound or light in a product or system AC9TDE6K02	Engineering principles and systems	
	Food and fibre production; Food specialisations	investigate how and why food and fibre are produced in managed environments and prepared to enable people to grow and be healthy ACTDEK021	explain how and why food and fibre are produced in managed environments AC9TDE6K03 explain how the characteristics of foods influence selection and preparation for healthy eating AC9TDE6K04	Food and fibre production; Food specialisations	
	Materials and technologies specialisations	investigate characteristics and properties of a range of materials, systems, components, tools and equipment and evaluate the impact of their use ACTDEK023	explain how characteristics and properties of materials, systems, components, tools and equipment affect their use when producing designed solutions AC9TDE6K05	Materials and technologies specialisations	
Processes and production skills	Investigating and defining	critique needs or opportunities for designing, and investigate materials, components, tools, equipment and processes to achieve intended designed solutions ACTDEP024	investigate needs or opportunities for designing, and the materials, components, tools, equipment and processes needed to create designed solutions AC9TDE6P01	Investigating and defining	Processes and production skills
	Generating and designing	generate, develop and communicate design ideas and processes for audiences using appropriate technical terms and graphical representation techniques ACTDEP025	generate, iterate and communicate design ideas, decisions and processes using technical terms and graphical representation techniques, including using digital tools AC9TDE6P02	Generating and designing	
	Producing and implementing	select appropriate materials, components, tools, equipment and techniques and apply safe procedures to make designed solutions ACTDEP026	select and use suitable materials, components, tools, equipment and techniques to safely make designed solutions AC9TDE6P03	Producing and implementing	
	Evaluating	negotiate criteria for success that include sustainability to evaluate design ideas, processes and solutions ACTDEP027	negotiate design criteria including sustainability to evaluate design ideas, processes and solutions AC9TDE6P04	Evaluating	
	Collaborating and managing	develop project plans that include consideration of resources when making designed solutions individually and collaboratively ACTDEP028	develop project plans that include consideration of resources to individually and collaboratively make designed solutions AC9TDE6P05	Collaborating and managing	

© State of Queensland (QCAA) 2022

Licence: <https://creativecommons.org/licenses/by/4.0> | **Copyright notice:** 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) 2022 www.qcaa.qld.edu.au/copyright.

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