Years 5–6 band Digital Technologies

Australian Curriculum Version 9.0: Achievement standard aligned to content descriptions

This resource shows alignment between aspects of the achievement standard and relevant content descriptions for Years 5–6 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. AC9TDI6**K**01 indicates Knowledge and understanding strand.

Key to content description codes: Digital Technologies	
e.g. **AC9TDI6K01** Australian Curriculum (**AC**) Version 9 (**9**) Technologies Learning area (**T**) Digital Technologies (**DI**) Years 5–6 band (**6**) Strand (**K**, **P**) Content description number (**##**)	Strands: • K — Knowledge and understanding • P — Processes and production skills

Years 5–6 band Australian Curriculum: Digital Technologies achievement standard
By the end of Year 6 students develop and modify digital solutions, and define problems and evaluate solutions using user stories and design criteria. They process data and show how digital systems represent data. Students design algorithms involving complex branching and iteration and implement them as visual programs including variables. They securely access and use multiple digital systems and describe their components and how they interact to process and transmit data. Students select and use appropriate digital tools effectively to plan, create, locate and share content, and to collaborate, applying agreed conventions and behaviours. They identify their digital footprint and recognise its permanence.

Achievement standard aspect	Relevant content description/s	AC v9.0 code
By the end of Year 6	**Students learn to:**	
Students develop and modify digital solutions, and define problems and evaluate solutions using user stories and design criteria.	• define problems with given or co-developed design criteria and by creating user stories	AC9TDI6P01
	• design a user interface for a digital system	AC9TDI6P03
	• generate, modify, communicate and evaluate designs	AC9TDI6P04
	• evaluate existing and student solutions against the design criteria and user stories and their broader community impact	AC9TDI6P06
They process data and show how digital systems represent data.	• explain how digital systems represent all data using numbers	AC9TDI6K03
	• explore how data can be represented by off and on states (zeros and ones in binary)	AC9TDI6K04
They design algorithms involving complex branching and iteration and implement them as visual programs including variables.	• design algorithms involving multiple alternatives (branching) and iteration	AC9TDI6P02
	• implement algorithms as visual programs involving control structures, variables and input	AC9TDI6P05
They securely access and use multiple digital systems and describe their components and how they interact to process and transmit data.	• investigate the main internal components of common digital systems and their function	AC9TDI6K01
	• examine how digital systems form networks to transmit data	AC9TDI6K02
	• access multiple personal accounts using unique passphrases and explain the risks of password re-use	AC9TDI6P09
They select and use appropriate digital tools effectively to plan, create, locate and share content, and to collaborate, applying agreed conventions and behaviours.	• select and use appropriate digital tools effectively to create, locate and communicate content, applying common conventions	AC9TDI6P07
	• select and use appropriate digital tools effectively to share content online, plan tasks and collaborate on projects, demonstrating agreed behaviours	AC9TDI6P08
They identify their digital footprint and recognise its permanence.	• explain the creation and permanence of their digital footprint and consider privacy when collecting user data.	AC9TDI6P10

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.