



Syllabus and curriculum comparison

Years 7 and 8

New South Wales Technology Syllabus	Australian Curriculum
7-8	Years 7 and 8
TE4-SDP-01 explains relationships between sustainability, design and production	AC9TDI8K01 explain how hardware specifications affect performance and select appropriate hardware for particular tasks and workloads
TE4-PDP-01 describes the practices and processes of designers and producers	AC9TDI8K02 investigate how data is transmitted and secured in wired and wireless networks including the internet
TE4-MSD-01 explains how materials, systems and components contribute to solutions	AC9TDI8K03 investigate how digital systems represent text, image and audio data using integers
TE4-PPM-01 applies processes in the planning, management and production of projects	AC9TDI8K04 explain how and why digital systems represent integers in binary
TE4-DES-01 communicates and evaluates design ideas and solutions	AC9TDI8P01 acquire, store and validate data from a range of sources using software, including spreadsheets and databases
TE4-SAF-01 selects and safely uses tools, materials, technologies and processes	AC9TDI8P02 analyse and visualise data using a range of software, including spreadsheets and databases, to draw conclusions and make predictions by identifying trends
TE4-DIG-01 demonstrates technological literacy to safely interact in digital environments	AC9TDI8P03 model and query the attributes of objects and events using structured data
TE4-DIG-02 uses data and digital systems to code, design and produce projects	AC9TDI8P04 define and decompose real world problems with design criteria and by creating user stories
Content Identifying and defining digital and communication technologies <ul style="list-style-type: none"> Identify appropriate hardware and software to develop design ideas and solutions Describe secure methods to share data and information safely online Outline factors affecting the design of digital solutions 	AC9TDI8P05 design algorithms involving nested control structures and represent them using flowcharts and pseudocode AC9TDI8P06 trace algorithms to predict output for a given input and to identify errors AC9TDI8P07 design the user experience of a digital system AC9TDI8P08 generate, modify, communicate and evaluate alternative designs AC9TDI8P09 implement, modify and debug programs involving control structures and functions in a general purpose programming language



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<p>Researching and planning ideas and solutions</p> <ul style="list-style-type: none"> Investigate data transmission and security through wired, wireless and mobile networks Collect, use and store data and information from a range of sources Assess cybersecurity and privacy risks Explain ethical considerations for the ownership of data, information and artificial intelligence (AI) applications Describe how digital solutions and communication technologies can contribute to sustainability Apply computational and systems thinking to assess ideas and develop quality solutions Investigate how Aboriginal communication practices inform current and emerging digital and communication technologies Use hardware and software to design, communicate and manage the development of digital solutions Create written texts and use graphics applications to communicate design ideas and solutions <p>Producing and implementing processes, solutions and projects</p> <ul style="list-style-type: none"> Use algorithms to solve problems and design solutions Select data, information, tools, systems and technologies to make digital solutions and projects Design user interfaces (UI) considering the user experience (UX) of digital systems Develop and trace algorithms using branching, iteration and a range of data types Use control structures and functions to implement, modify and test programs using coding Demonstrate safe practices when using and developing digital and communication technologies Document design processes when using digital and communication technologies <p>Testing and evaluating data, tools, systems and technologies</p> <ul style="list-style-type: none"> Evaluate authenticity, accuracy and timeliness of data and information Use data and digital systems to code, test and evaluate design ideas and quality solutions Work collaboratively to optimise digital solutions and algorithms Use factors affecting design to evaluate user interfaces (UI) and user experiences (UX) 	<p>AC9TDI8P10 evaluate existing and student solutions against the design criteria, user stories and possible future impact</p> <p>AC9TDI8P11 select and use a range of digital tools efficiently, including unfamiliar features, to create, locate and communicate content, consistently applying common conventions</p> <p>AC9TDI8P12 select and use a range of digital tools efficiently and responsibly to share content online, and plan and manage individual and collaborative agile projects</p> <p>AC9TDI8P13 explain how multi factor authentication protects an account when the password is compromised and identify phishing and other cyber security threats</p> <p>AC9TDI8P14 investigate and manage the digital footprint existing systems and student solutions collect and assess if the data is essential to their purpose</p>