

# make:able

## Curriculum Alignment | The Australian Curriculum (Design and Technologies v9)

A list of curriculum standards addressed when participating in the make:able student challenge





# The Australian Curriculum

(Design and Technologies v9)



- Years 7 & 8 | Knowledge and understanding | Technologies and society - analyse how people in design and technologies occupations consider ethical and sustainability factors to design and produce products, services and environments
- Years 7 & 8 | Knowledge and understanding | Technologies and society - analyse the impact of innovation and the development of technologies on designed solutions for global preferred futures
- Years 7 & 8 | Knowledge and understanding | Technologies Context: Engineering principles and systems - analyse how force, motion and energy are used to manipulate and control engineered systems
- Years 7 & 8 | Knowledge and understanding | Technologies Context: Materials and technologies specialisations - analyse how characteristics and properties of materials, systems, components, tools and equipment can be combined to create designed solutions
- Years 7 & 8 | Processes and production skills | Investigating and defining - analyse needs or opportunities for designing, and investigate and select materials, components, tools, equipment and processes to create designed solutions
- Years 7 & 8 | Processes and production skills | Generating and designing - generate, test, iterate and communicate design ideas, processes and solutions using technical terms and graphical representation techniques, including using digital tools
- Years 7 & 8 | Processes and production skills | Producing and implementing - select, justify and use suitable materials, components, tools, equipment, skills and processes to safely make designed solutions
- Years 7 & 8 | Processes and production skills | Evaluating - develop design criteria collaboratively including sustainability to evaluate design ideas, processes and solutions
- Years 7 & 8 | Processes and production skills | Collaborating and managing - develop project plans to individually and collaboratively manage time, cost and production of designed solutions

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- Years 9 & 10 | Knowledge and understanding | Technologies and society - analyse how people in design and technologies occupations consider ethical, security and sustainability factors to innovate and improve products, services and environments
  - Years 9 & 10 | Knowledge and understanding | Technologies and society - analyse the impact of innovation, enterprise and emerging technologies on designed solutions for global preferred futures
  - Years 9 & 10 | Knowledge and understanding | Technologies Context: Engineering principles and systems - analyse and make judgements on how the characteristics and properties of materials are combined with force, motion and energy to control engineered systems
  - Years 9 & 10 | Knowledge and understanding | Technologies Context: Materials and technologies specialisations - analyse and make judgements on how characteristics and properties of materials, systems, components, tools and equipment can be combined to create designed solutions
  - Years 9 & 10 | Processes and production skills | Investigating and defining - analyse needs or opportunities for designing; develop design briefs; and investigate, analyse and select materials, systems, components, tools and equipment to create designed solutions
  - Years 9 & 10 | Processes and production skills | Generating and designing - apply innovation and enterprise skills to generate, test, iterate and communicate design ideas, processes and solutions, including using digital tools
  - Years 9 & 10 | Processes and production skills | Producing and implementing - select, justify, test and use suitable technologies, skills and processes, and apply safety procedures to safely make designed solutions
  - Years 9 & 10 | Processes and production skills | Evaluating - develop design criteria independently including sustainability to evaluate design ideas, processes and solutions
  - Years 9 & 10 | Processes and production skills | Collaborating and managing - 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



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