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# Aims

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The Western Australian Curriculum: Technologies aims to develop the knowledge, understandings and skills to ensure that, individually and collaboratively, students:

- investigate, design, plan, manage, create and evaluate solutions
- are creative, innovative and enterprising when using traditional, contemporary and emerging technologies, and understand how technologies have developed over time
- make informed and ethical decisions about the role, impact and use of technologies in the economy, environment and society for a sustainable future
- engage confidently with and responsibly select and manipulate appropriate technologies – materials, data, systems, components, tools and equipment – when designing and creating solutions
- critique, analyse and evaluate problems, needs or opportunities to identify and create solutions.

## Design and Technologies

Design and Technologies aims to develop the knowledge, understandings and skills to ensure that, individually and collaboratively, students:

- produce designed solutions suitable for a range of Technologies contexts by selecting and manipulating a range of materials, systems, components, tools and equipment creatively, competently and safely; and managing processes
- understand the roles and responsibilities of people in design and technologies occupations and how they contribute to society.

## Digital Technologies

Digital Technologies aims to develop the knowledge, understandings and skills to ensure that, individually and collaboratively, students:

- use computational thinking and the key concepts of abstraction; data collection, representation and interpretation; specification, algorithms and implementation to create digital solutions
- confidently use digital systems to efficiently and effectively transform data into information and to creatively communicate ideas in a range of settings
- apply systems thinking to monitor, analyse, predict and shape the interactions within and between information systems and understand the impact of these systems on individuals, societies, economies and environments.