

DIGITAL TECHNOLOGIES

Key Learning Area: Technological and Applied Studies

Course: Digital Technologies

Course Description

Digital Technologies empowers students to shape change by influencing how contemporary and emerging information systems and practices are applied to meet current and future needs.

Digital Technologies provides students with practical opportunities to use design thinking and to be innovative developers of digital solutions and knowledge. This course helps students to become innovative creators of digital solutions, effective users of digital systems and critical consumers of information conveyed by digital systems.



Students investigate how...

- data is transmitted and secured in wired, wireless and mobile networks and how the specifications of hardware components impact on network activities
- digital systems represent text, image and audio data in binary

Students learn to...

- plan and manage digital projects to create interactive information
- define and decompose problems in terms of functional requirements and constraints
- design user experiences and algorithms incorporating branching and iterations, and test, modify and implement digital solutions
- evaluate information systems and their solutions in terms of meeting needs, innovation and sustainability
- analyse and evaluate data from a range of sources to model and create solutions
- use appropriate protocols when communicating and collaborating online

Course Requirements

Students will require USB keys to be used for storing projects that are developed as part of the course.