

# Computing Concepts

## Information Technology

Information technology is the use of computers to create, process, store, retrieve and exchange all kinds of data and information. IT forms part of information and communications technology.

## Digital Literacy

Digital literacy refers to an individual's ability to find, evaluate, and communicate information through typing and other media on various digital platforms. It is evaluated by an individual's grammar, composition, typing skills and ability to produce text, images, audio and designs using technology.

## Computer Science

Fundamental areas of computer science  
Computer science is the study of computation, automation, and information. Computer science spans theoretical disciplines to practical disciplines. Computer science is generally considered an area of academic research and distinct from computer programming.

## Online Safety

Internet safety or online safety or cyber safety and E-Safety is trying to be safe on the internet and is the act of maximising a user's awareness of personal safety and security risks to private information and property associated with using the internet, and the self-protection from computer crime.

## Programming / Coding

Computer programming is the process of performing a particular computation, usually by designing and building an executable computer program. Programming involves tasks such as analysis, generating algorithms, profiling algorithms' accuracy and resource consumption, and the implementation of algorithms.



## Computational Thinking

Computational thinking is the mental skill to apply concepts, methods, problem solving techniques, and logic reasoning, derived from computing and computer science, to solve problems in all areas, including our daily lives.

## Designing

Design encompasses many different skills and disciplines in the production and maintenance of websites. The different areas of web design include web graphic design; user interface design; authoring, including standardised code and proprietary software; user experience design; and search engine optimisation.

