Computing Vocabulary

Year 7

Digital Citizenship
- Grooming
- Social networking
- Reliability
- Privacy
- Cybersecurity
- Hacking

Algorithm and Computational Thinking
- Computational thinking
- Algorithms
- Decomposition

- Abstraction
- Sequencing
- Selection
- Iteration. Microbit

Encryption and Code Breaking
- Cryptography
- Encryption
- Cipher
- Algorithms
- Equality

Programming
- Algorithms

- Decomposition
- Sequencing
- Abstraction
- Variables
- Data types
- Selection
- Iteration
- Arithmetic
- Operators
- Relational operators
- Programming. Else
- Elif
- Syntax

Information and Spreadsheets
- Cell reference
- Format data
- Formulas
- SUM
- MIN
- MAX
- Filter
- Data
- Information
- Reliability
- Fake news
- Trustworthiness

Year 8

Digital Citizenship
- Grooming
- Sexting
- Social networking
- Reliability
- Privacy
- Cybersecurity

Binary and Hexadecimal
- Binary
- Hexadecimal
- Binary shifts
- Digits

- Bits

Computer Hardware
- Computer systems
- Embedded systems
- General purpose systems
- Motherboard
- CPU
- RAM
- ROM
- Buses
- Magnetic storage
- Solid-state storage

Computer Networking
- Network
- Topologies
- Star
- Bus
- Protocols
- Wireless
- Wired
- Switch
- Hub
- Server
- Internet
- Local area network

- Wide area
- Personal area networks

Computational Thinking and Programming
- Strings
- Indexing
- Substring
- Variables
- Concatenation
- Selection
- Iteration (count
- Control
- Condition control)

Year 9

Binary, Hexadecimal and Data Representation
- Binary
- Hexadecimal
- Binary shifts
- Bits
- Bytes
- ASCII
- Unicode
- Bitmap
- Characters
- Sets
- Pixels
- Sampling
- Sample resolution
- Digital processing

- Analogue
- Digital
- Audio
- Colour depth
- Compression

Programming
- Integers
- Reals
- Floats
- Variables
- Relational
- Operators
- Boolean operators
- Arithmetic
- Sequencing
- Selection
- Iteration

- Data structure
- Array

Computational Logic
- Logical operators
- AND
- OR
- NOT
- XOR. Logic
- Gates
- Logical circuits
- Logical expressions
- Boolean logic
- Boolean algebra

Databases and SQL Introduction
- Database
- Records

- Fields
- Relational
- Databases
- Flat file database
- SQL
- Commands

Cyber Security
- Cyber Security
- Malware
- Viruses
- Trojans
- Social engineering
- Shouldering
- Blagging
- Phishing
- Pharming
- Penetration testing