

Computer Science 2018-2019

Year 7

- System Security (1)
- Hardware and Software
- The purpose of the CPU
- RAM and ROM
- Storage
- Introduction to networks
- Systems Software
- Computational Thinking
- Intro to programming
- Data Representation

Year 8

- System Security (2)
- Data Representation
- Von Neumann Architecture
- Fetch Execute Cycle
- Memory and Storage
- Wired and Wireless Networks
- Systems Software
- Algorithms
- Programming techniques

Year 9

- System Security (3)
- Data Representation
- Von Neumann Architecture
- Fetch Execute Cycle
- Embedded Systems
- Memory and Storage
- Wired and Wireless Networks
- Algorithms
- Programming Techniques
- Producing robust programs
- Errors and testing

Year 10 & 11

- 2 Exam papers and a 20 hour programming task to be completed in year 11
- 1.1 Systems architecture
- 1.2 Memory
- 1.3 Storage
- 1.4 Wired and wireless networks
- 1.5 Network topologies, protocols and layers
- 1.6 System security
- 1.7 Systems software
- 1.8 Ethical, legal, cultural and environmental concerns
- 2.1 Algorithms
- 2.2 Programming techniques
- 2.3 Producing robust programs
- 2.4 Computational logic
- 2.5 Translators and facilities of languages
- 2.6 Data representation