



Curriculum

Outline of Content

Year 8



Assessment

Autumn Term

System Architecture -

Control Unit, Arithmetic Logic Unit, Registers, MAR, MDR, Buses, Accumulator

Memory & Storage -

Virtual Memory, Secondary Storage, Common Storage Types, Suitable Storage Devices and Media, Advantages and Disadvantages, Data Capacity

Spring Term

Binary -

Converting Denary to Binary, Adding Binary, Denary to Hex, Binary to Hex, Binary Shifts

Network Security -

Malware, Viruses, Worms, Trojan Horses, Phishing, Passwords, Staying Safe

Systems Software -

Operating Systems, What they do, Windows, Mac, Linux, Utility Software

Summer Term

Computational Thinking -

Decomposition, Pattern Recognition, Abstraction, Algorithm Design

Programming -

Integrated Development Environment, Data Types, more advanced programming, Using Files, Functions, Subprograms,

Autumn Term

- End of term assessment on Autumn term content

Spring Term

- End of term assessment on Autumn and Spring term content

Summer Term

- End of term assessment on Autumn, Spring and Summer term content

End of Year Grade

- Result from Summer term assessment