

Curriculum Sequencing Grid: (KS3 – Y9 Computer Science)

| Year 9 | Term 1 | Term 2 | Term 3 |
|---|---|---|--|
| Unit (Tablet in 39 week plan) | Computer Systems | Cyber Security | Programming |
| Key Retainable Knowledge (Required for Y11/13) • What How Why | Students to be given an introduction to networks and data connections, including the internet. | Students taught methods of cyber security attacks and how to prevent them. | Students to build on their knowledge from Y7 in both textual and non-textual languages. |
| Key Technical Vocabulary (To be modelled and deliberately practiced in context.) | Network Topologies LAN WAN Workstation NIC Switch Bridge Gateway Binary Hexadecimal | Cyberterrorism Downloading Encryption Hacker Network Virus Malware Ransomware Trojan Worm Phishing Piggybacking Shoulder Surfing Vulnerability Prevention | Sequence Selection Iteration Algorithm Variable Integer Constant Function Concatenation String Turtle Syntax Boolean Logic Tuples Arrays Dictionaries |
| Opportunities for Reading | BBC BITESIZE TEACH ICT Twitter | BBC BITESIZE TEACH ICT Twitter | BBC BITESIZE TEACH ICT Twitter |



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| Developing Cultural Capital (exposure to very best- essential knowledge and skills of educated citizens – appreciation of human creativity and achievement.) | BebrasHour of code | Video of people working in Cyber Security | BebrasHour of code |
|---|--|---|---|
| Cross Curricular Links (Authentic Connections) | Maths- binary/denary/hex conversions | | Maths- integer manipulation |
| Key Assessment | SPA and CTG embedded into lesson structures. | SPA and CTG embedded into lesson structures. | SPA and CTG embedded into lesson structures. |