**Curriculum Overview for Computer Science**

**Year 9**

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| **Term 3**  **Networks**  **Substantive Knowledge:**  This unit explores networks and how they work. The unit covers what a network is, how it works and how students use several networks a day (in school and on their phone).  The unit prepares students for the GCSE Computer Science course where this unit will be used as a basis and built upon with further Network facts.  **Disciplinary Knowledge:**   * Explore what a LAN is and what connects it * Explore what a WAN is and what connects it * Explore what a Wireless LAN is and where it is located * Hardware used to connect networks * How data packets travel across networks * Factors affecting network performance * Explore network security and the types of threat to networks * Explore what encryption is and one method of encryption * Create encryption tasks | Books | Model reading  Reading out loud  Skim and Scan of source information  Decoding terms  Etymology of key terms |
| Speech | Network  LAN  WAN  WPAN  Network Packets  Server  Switch  Hardware  Connectivity  Router  Performance  Virus  Spyware  Worms  Trojan |
| Checklist RTL | **Formative assessment**  Knowledge checks  Quiz  Practice questions  **Summative assessment**  End of unit assessment |
| Home | Practice questions  Revision tasks  Research tasks |