**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 readingReading out loudSkim and Scan of source informationDecoding termsEtymology of key terms |
| Speech | NetworkLANWANWPANNetwork PacketsServerSwitchHardwareConnectivityRouterPerformanceVirusSpywareWormsTrojan |
| Checklist RTL | **Formative assessment**Knowledge checksQuizPractice questions**Summative assessment**End of unit assessment |
| Home | Practice questionsRevision tasksResearch tasks |