**Curriculum Overview for Computer Science**

**Year 10**

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| **Half Term 1** **Hardware****Substantive Knowledge:*** The functions of the CPU and how it works
* The functions of primary storage and how it works
* The functions of secondary storage and how it works

**Disciplinary Knowledge:*** Von Neumann and how his work affects the CPU and how it works
* Characteristics of the CPU – clock speed, cores, cache and memory
* Different types of memory in the computer – RAM, ROM, Cache
* Primary and Secondary storage, their differences and types of storage
 | Books | Model readingReading out loudSkim and Scan of source informationDecoding termsEtymology of key terms |
| Speech | CPUClock SpeedVon NeumannCacheArithmetic Logic UnitOverclockingFetchDecodeExecuteRAMROMHard drive |
| Checklist RTL | **Formative assessment**Knowledge checksQuizPractice questions**Summative assessment**End of unit assessment |
| Home | SenecaPractice questionsRevision tasksResearch tasks |