**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 reading  Reading out loud  Skim and Scan of source information  Decoding terms  Etymology of key terms |
| Speech | CPU  Clock Speed  Von Neumann  Cache  Arithmetic Logic Unit  Overclocking  Fetch  Decode  Execute  RAM  ROM  Hard drive |
| Checklist RTL | **Formative assessment**  Knowledge checks  Quiz  Practice questions  **Summative assessment**  End of unit assessment |
| Home | Seneca  Practice questions  Revision tasks  Research tasks |