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| **Curriculum Overview: Computer Science** |

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|  | **Year 7** | **Year 8** | **Year 9** | **Year 10** | **Year 11** | **Year 12** | **Year 13** |
| **HT1** | **Theory -ESafety & Computer hardware**  **Programming - Scratch basics** | **Theory –E Safety & introduction to networks**  **Programming -** | **Theory – Computer Architecture**  **Programming – Python basic** | **Section 1 – System Architecture**  **Section 6 – programming – sequence & selection** | **Revision of Yr 10.**  **Section 8 – Data representation.**  **Programming -Records & files.** | **Section 1: Components of a Computer**  **Section 6:**  **Data Types** | **Section 9: Legal, moral, ethical and cultural issues**  **Section 11: Programming techniques** |
| **HT2** | **Theory - Computer hardware**  **Programming – Programming in Excel.** | **Theory –System software Operating systems**  **Programming -** | **Theory – Computer Architecture**  **Programming – Python basic** | **Section 2 – Wired & wireless networks**  **Section 6 – programming- Iteration** | **Revision**  **Section 8 – Data representation.**  **Programming -Records & files.** | **Section 1: Components of a Computer**  **Section 2: Software systems**  **Section 8:**  **Boolean Algebra**  **Project: Analysis** | **Project:**  **Development** |
| **HT3** | **Theory - How the Internet works**  **Programming – Introduction to Micro:bit Programming** | **Theory –Binary/Denary conversion**  **Programming -** | **Theory – Wired & wireless networks**  **Programming – Python data types** | **Section 3 – System software and security**  **Section 6 – programming-Iteration** | **Revision – exam papers**  **Programming – practice writing of programms** | **Section 2: Software systems**  **Section 4:**  **Exchanging Data**  **Project: Analysis** | **Section 12: Algorithm**  **Project: Development** |
| **HT4** | **Theory –Introduction to Binary numbers**  **Programming – Micro:bit Programming. Create useful scripts.** | **Theory –System security**  **Programming -** | **Theory – Wired & wireless networks**  **Programming – Python – If statement** | **Section 4 – Ethical, legal issues**  **Section 6 – programming-arrays** | **Revision – exam papers**  **Programming – practice writing of programms** | **Section 3: Software development**  **Section 7: Data Structures**  **Project: Design** | **Revision**  **Project: Development to inform** |
| **HT5** | **Theory –Copyright and legal issues**  **Programming – Trinket Turtle introduction** | **Theory –Effect of technology on environment**  **Programming -** | **Theory – System software and security**  **Programming – Python – For - loop** | **Section 7 – Logic & languages**  **Section 6 – programming – Procedures & functions** | **Revision – exam papers** | **Section 5: Network and web technologies**  **Section 7:**  **Data Structures**  **Project: Design** | **Revision** |
| **HT6** | **Programming – Introduction to HTML** | **Programming -** | **Theory – Ethical, legal issues**  **Programming – Python – While - loop** | **Revision**  **Section 6 – programming – Procedures & functions** |  | **Section 5: Network and web technologies**  **Section 10:**  **Computational Thinking** |  |