Long Term Plan Computer Science Year 10 2020-22

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| **Term** | **Topic (s)** | **Assessed Work** | **Additional details** |
| Term 1 a | Introduction to Computer Science GCSE, including using Python.  Algorithms  Iteration | End of Unit Test  End of Unit Test | Students given the GCSE Computer Science book with Interactive resources.  Students also given a copy of the Python Programming Guide.  Students to start non assessed programming project. |
| Term 1 b | Boolean Logic  Data Types and Data Structures | End of Unit Test  End of Unit Test | Student have access to Interactive online resources.  Students to start non assessed programming project. |
| Term 2 a | Searching and Sorting Algorithms  Input and Output | End of Unit Test  End of Unit Test | Student have access to Interactive online resources. |
| Term 2 b | Problem Solving  Programming Project | End of Unit Test  The Programming Project report | Student have access to Interactive online resources.  Students have 20 hours of class time to complete this project. |
| Term 3 a | Programming Project | Programming Project Report | Students have 20 hours of class time to complete this project.  Student have access to Interactive online resources. |
| Term 3 b | Programming Project | Programming Project Report | Students have 20 hours of class time to complete this project.  Student have access to Interactive online resources. |

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| **Term** | **Topic (s)** | **Assessed Work** | **Additional details** |
| Term 4 a | Binary & Hexadecimal  Binary Representations | End of Unit Test  End of Unit Test | Student have access to Interactive online resources. |
| Term 4 b | Programming Languages  Computer Systems: Hardware | End of Unit Test  End of Unit Test | Student have access to Interactive online resources. |
| Term 5 a | Computer Systems: Software  Networks | End of Unit Test  End of Unit Test | Student have access to Interactive online resources. |
| Term 5 b | Computer Security  Ethical, legal, cultural and environmental concerns  Revision | End of Unit Test  End of Unit Test  Trial Exams | Student have access to Interactive online resources. |
| Term 6 a | Revision | Trial Exams |  |