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| <p>THE HIGHEST STANDARDS</p> <p>Always set and deliver the highest standards; never settle for less.</p> | <p>INVEST TO ACHIEVE</p> <p>Care about the now; create the very best for your future.</p> | <p>EVERYONE IS VALUED</p> <p>We are unique. Individuals working together to be the best.</p> | <p>NO EXCUSES</p> <p>Create solutions, not excuses.</p> | <p>NEVER GIVE UP</p> <p>Resilience is essential; self-belief drives improvement.</p> | <p>CULTIVATE YOUR CHARACTER</p> <p>Qualifications open doors; your character gets you through them.</p> |
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H446 | A-Level Computer Science | Year 12 |

| | Week 0 | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 |
|--------------------|----------------------------|---|---------------------------------|--------------------|------------------------------------|----------------------------|----------------------------------|-------------------------------------|--------|
| Half Term 1 | | Programming Recap | 1.1 Modern CPU Design | | 1.2.1, 1.2.2 1.2.3 System Software | | | 1.2.4 Object-Orientated Programming | |
| Half Term 2 | 1.2.4 Challenge | 1.3 Compression, Encryption and Databases | | | 1.3 Networks and Communication | | 1.3.4 HTML5, CSS5 and Javascript | Holiday | |
| Half Term 3 | 1.4 Data | | | | 1.5 Ethics, Legal and Moral Issues | 2.1 Computational Thinking | Holiday | | |
| Half Term 4 | 2.1 Computational Thinking | | Recap and Refresher week Comp 1 | Trial Examinations | | Holiday | | | |
| Half Term 5 | CTG on Trial | 2.3 Algorithms | | | 2.2 Programming | | Holiday | | |
| Half Term 6 | 2.2 Programming | Introduction to Component 3 | | Trial Examinations | | Work Experience | CTG on Trial | | |

How does this year deliver your curriculum intent?

Y12 Builds on the theory pupils learnt at KS4 in GCSE Computer Science (OCR J277). To bring students up to the same level, we initially do a recap of procedural programming in Python to make sure students are up to the A-Level programming standard. We cover the whole of the specification excluding Component 3 during Y12. In the first half of the year all of component 1 is covers to give the fundamental understanding of theory for application to the more practical Component 2 in the second half of the year. Regular practice of algorithms will happen within lessons to make sure that students apply and embed the knowledge that is highly assessed over both Papers. Students will sit a trail consisting of AS Level papers, allowing them to reflect on thieer areas of improvement and close the gaps over HT6. As we move towars the last few weeks of Y12, pupils will be introduced to Component 3 programming project so that they can begin their independent work of choosing a project title over the summer holidays, ready to make a start in Year 13.