Computer Science

## Class of 2018

|  |
| --- |
| Exam board information: Cambridge iGCSE Computer Science (0478) |

|  |
| --- |
| Course content: As part of this course students will have the opportunity to learn programming skills (most likely using the Python programming language) and consider how the skills can be applied to a number of different contexts. This might for example include automating tasks within a database by using scripts or designing new applications for mobile phones. It’s important to understand that there is a theory element of this course which concentrates on computer architecture and software development. |

|  |
| --- |
| Skills that will be developed:  * Develop their understanding of current and emerging technologies and how they work; * Look at the use of algorithms in computer programs; * Become independent and discerning users of IT; * Acquire and apply creative and technical skills, knowledge and understanding of IT in a range of contexts; * Develop computer programs to solve problems; * Evaluate the effectiveness of computer programs/ solutions and the impact of computer technology in society. |

|  |
| --- |
| How the course will be assessed: Paper 1 - Theory - 1 hour 45 minutes - 60% of final GCSE  This written paper contains short-answer and structured questions.  Paper 2 - Problem-solving and Programming - 1 hour 45 minutes - 40% of final GCSE  This written paper contains short-answer and structured questions. 20 of the marks for this paper are from questions set on the pre-release material. |

|  |
| --- |
| To be successful:  * Be curious: Students explore, ask questions and problem solve. * Show commitment: Students show focus when engaged in activities. * Persistence: Students engage with an activity until they are satisfied with their progress. * Reflective: Students can reflect on their own learning, respond and take action after receiving feedback. * Independent: Successful students will be able to think through, act and find solutions to problems for themselves. * Resilient: Students need to keep motivating and challenging themselves to improve. |

|  |
| --- |
| Onward pathways: This qualification provides a broad and solid foundation for further study. Students who want to go on to higher study and employment in the field of computer science will find it provides a superb stepping stone. |

|  |
| --- |
| Further information: Speak with Mr J Hunter or Mr A Runciman.  Alternatively visit: http://www.cie.org.uk/programmes-and-qualifications/cambridge-igcse-computer-science-0478/ |