Computer Science

## Class of 2018

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

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| 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. |

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

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| 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.
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| 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. |

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| 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/ |