Subject	**GCSE COMPUTER SCIENCE** **Course Code : J275**
Course Content	**Unit A451: Computer systems and programming** This unit covers the body of knowledge about computer systems on which the examination will be based. 1 hour 30 minutes Written paper 80 marks 40% Weighting **UnitA452: Practical investigation** An investigative computer task chosen from a list provided by OCR, which assesses the following: research, technical understanding, analysis of problem, historical perspective, use of technical writing skills, recommendations/evaluation. Controlled assessment Investigative task OCR-set scenario with a choice of research tasks. 45 marks 30% Weighting **Unit A453: Programming project** Students will need to: Understand standard programming techniques Be able to design a coded solution to a problem including the ability to: • Develop suitable algorithms • Design suitable input and output formats • Identify suitable variables and structures • Identify test procedures • Create a coded solution fully annotating the developed code to explain its function • Test their solution • To show functionality • Show how it matches design criteria • Identify successes and any limitations Controlled Assessment Programming Task. Design, develop and test a solution to a problem within the OCR-set scenario. 45 Marks 30% Weighting
Where does this Course Lead?	The course gives students a real in-depth understanding of how computer technology works. Students will no doubt be familiar with the use of computers and other related technology from their other subjects and elsewhere. However, this course will give them an insight into what goes on 'behind the scenes', including computer programming which many students find absorbing. The course provides excellent preparation for higher study and employment in the field of computer science. The increasing importance of information technologies means there will be a growing demand for professionals who are qualified in this area. Students who've taken a GCSE in Computing and who then progress to study the subject at A Level or university will have an advantage over their colleagues who are picking up the subject at these levels.

	The course will develop critical thinking, analysis and problem-solving skills through the study of computer programming, giving students a fun and interesting way to develop these skills, which can be transferred to other subjects and even applied in day-to-day life. In this respect, the course provides excellent preparation for students who want to study or work in areas that rely on these skills, especially where they are applied to technical problems. These areas include engineering, financial and resource management, science and medicine.
Visits / Coursework / Specialist Requirements	Computer Science Conference – Microsoft After School Coding Club –Coderdojo Robotics Competitions Research, reading around the subject, proactive attitude, independent style of learning, good time management, organisation, meeting deadlines, learning with IT technician, attendance at extra-curricular clubs/activities
How Parents Can Help	Summer Pack – Theory (Get ahead) Theory Website link uploaded to Edmodo Parent code on Edmodo – track classwork, homework and coursework
Assessment	**Assessment** **Unit A451: Computer systems and programming** This unit covers the body of knowledge about computer systems on which the examination will be based. 1 hour 30 minutes Written paper 80 marks 40% Weighting **UnitA452: Practical investigation** Controlled assessment Investigative task OCR-set scenario with a choice of research tasks. 45 marks 30% Weighting **Unit A453: Programming project** Controlled Assessment Programming Task. Design, develop and test a solution to a problem within the OCR-set scenario. 45 Marks 30% Weighting
Guides / Support Materials / Websites	Resources – Edmodo CourseBook - OCR Computing for GCSE Student's Book – **ISBN**-10: 1444177796 Other websites: Official Website - http://www.cambridgegcsecomputing.org/ http://www.bbc.co.uk/bitesize/standard/computing/computer_systems/ There are hundreds of sites will be using; these are two good starting points.

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