GCSE COMPUTER SCIENCE

St. Sampson's High
Learning Together

Specification j276

- For examinations :-
- May 2018
- May 2019
- May 2020
- It was originally designed to have 3 parts:-
- Paper 01 = 40%
- Paper 02 = 40%
- Non Exam Assessment = 20%
- NB: Following concerns over the administration of the Non Exam Assessment students still do the tasks but they do not receive marks for it. The exams combined are now worth 100%

Paper 01: Computer Systems

Computer systems • Systems Architecture • Memory • Storage • Wired and wireless networks • Network topologies, protocols and layers • System security • System software • Ethical, legal, cultural and environmental concerns	Computer systems (01) 80 marks 1 hour and 30 minutes Written paper	**40%** of total GCSE

Now worth 50% of GCSE

Paper 02: Computational Thinking, Algorithms & Programming

Now worth 50% of GCSE

Computational thinking, algorithms and programming • Algorithms • Programming techniques • Producing robust programs • Computational logic • Translators and facilities of languages • Data representation	Computational thinking, algorithms and programming (02) 80 marks 1 hour and 30 minutes Written paper	**40%** of total GCSE

Programming Project

Programming project * • Programming techniques • Analysis • Design • Development • Testing and evaluation and conclusions	Programming project (03/04) 40 marks Totalling 20 hours Non-Exam Assessment (NEA)	**20%** of total GCSE

You are still required to do the project but the mark does not count towards the final GCSE grade. However, in doing the project it will help you consolidate your knowledge of python which in turn will help you with the theory required for Paper 02. The NEA is now called the Programming Project

Resources:

- www.cambridgegcsecomputing.org
- https://www.senecalearning.com/
- https://www.python.org/
- https://www.w3schools.com/
- https://www.ocr.org.uk/Images/558027-specification-gcse-computer-science-j277.pdf
- https://www.ocr.org.uk/images/225975-specification-accredited-gcse-computer-science-j276.pdf

Coursework

- Has to be completed in the presence of a teacher.
- If you require any lunchtimes please let your teacher know with specific dates.

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- For first teaching from September 2020

Paper 01: Computer Systems

- Systems Architecture
- Memory & Storage
- Computer Networks, connections and protocols
- Network security
- System Software
- Ethical, legal, cultural and environmental impacts of digital technology

Paper 02: Computational Thinking, Algorithms & Programming

- Algorithms
- Programming Fundamentals
- Producing Robust Programs
- Boolean Logic
- Programming Languages and Integrated Development Editors

Programming Project

- Due to difficulties in assessing this area of learning candidates are no longer required to submit a programming project separately
- They do still learn programming as part of the course
- The OCR language of preference is still Python