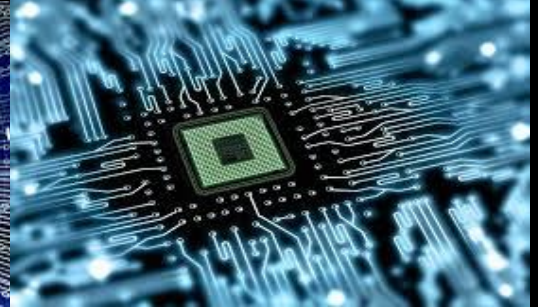


MAP OF COMPUTER SCIENCE



# 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



Now worth 50% of GCSE

**40%**

**of total**

**GCSE**

## 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

# Paper 02: Computational Thinking, Algorithms & Programming



## 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

<b>Programming project *</b> <ul style="list-style-type: none"><li>• Programming techniques</li><li>• Analysis</li><li>• Design</li><li>• Development</li><li>• Testing and evaluation and conclusions</li></ul>	<b>Programming project</b> (03/04) 40 marks Totalling 20 hours Non-Exam Assessment (NEA)	<b>20%</b> of total GCSE
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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](http://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