Testbourne Community School

OCR Computer Science J277
Paper 1 End of Year Exam

Year 10 – June 2025

J277/01: Computer Systems
 	
This component will assess:
1.1 Systems Architecture
   o Architecture of the CPU
   o CPU Performance
   o Embedded systems
1.2 Memory & Storage
   o Primary Storage
   o Secondary Storage
   o Units of memory
   o Data Storage
   o Numbers
   o Characters
   o Images
   o Sound
   o Compression
1.3 Computer Networks, connections and protocols
   o Networks and topologies
   o Wired and wireless networks, protocols and layers
1.4 Network Security
   o Threats to computer systems and networks
   o Identifying and preventing vulnerabilities
1.5 System Software
   o Operating systems
   o Utility Software
1.6 Impact of technology on society
   o Ethical issues
   o Legal issues
   o cultural issues
   o Environmental issues
   o Privacy issues
Legislation relevant to Computer Science
Data Protection Act 2018, Computer Misuse act 1990
Copyright Designs and Patent Act 1988
Software licences (i.e. open source and proprietary)
	Written paper: 1 hour and 15 minutes
	
	50% of total GCSE
	
	80 marks
	
	This is a non-calculator paper. All questions are mandatory.
	
	This paper consists of multiple-choice questions, short response questions and extended response questions

Achievement • Excellence • Integrity

Essential equipment:
Black pens.

Revision materials:
SMART Revise, Craig & Dave videos YouTube, Six-A-Day Algorithms Free Resources - CSUK:ReviseCS, Exam Question Bank on Teams, CGP Grade 9-1 GCSE Combined Science: OCR revision guides and workbooks. Revision resources on Teams, SharePoint and GCSEpod

Suggested revision activities:

Make mind maps, knowledge organiser, revision mats or flash cards for each topic. Answer practice exam questions and use mark schemes to check and correct your answers. There are practice questions and mark schemes on SharePoint. Log in to Smart Revise and GCSEpod and use the revision materials and online tests. You can also use senecalearning.com, but ensure you select the right exam board and tier (OCR GCSE Computer Science).