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| **GCSE Computer Science** Revision List – November 2025 | | | |
| Exam information  **Exam Board:** OCR (J277)  **Paper Information:** 2 papers focusing on computer systems (Component 1) and computational thinking, algorithms and programming (Component 2)  You should aim to write algorithm/pseudocode/exam reference language questions in a Python format as this is the programming language you have used at GCSE. You need to include a comment on your algorithm questions (1 easy mark). A large amount of the Component 1 paper is made up of definitions of key terms, advantages and disadvantages. Knowledge based questions (1-3 mark questions). Be prepared for knowing the binary, denary and hex table and using the conversion method you have been taught as you are not allowed a calculator in both exams.  **Paper marks:** 80 marks per paper  **Duration:** 1 hour 30 minutes each | | | |
| **Paper 1 Content** | Revised? | **Paper 2 Content** | Revised? |
| Computer Systems  1.1 Systems architecture including architecture of the CPU (registers, ALU/CU and cache), CPU performance, embedded systems  1.2 Memory and storage including primary and secondary storage, units of data storage, binary, denary and hexadecimal conversions and binary addition |  | Computational thinking, algorithms and programming  2.1 Algorithms  2.2 Programming fundamentals  2.3 Producing robust programs  2.4 Boolean logic  2.5 Programming languages and Integrated Development Environments |  |
| Revision Links | | | |
| * [GCSE Computer Science area on the Computer Science & IT SharePoint](https://omegamat.sharepoint.com/sites/GSHSComputing/SitePages/KS4-Computer-Science-and-IT.aspx) * [Craig and Dave YouTube Channel](https://www.youtube.com/c/craigndave/playlists?view=50&sort=dd&shelf_id=2) * [Teach ICT J277](https://teach-ict.com/2016/GCSE_Computing/OCR_J277/OCR_J277_home.html) * GCSE Computer Science Complete Revision & Practice * Microsoft Teams / OneNote classbook * [Knowledge Organisers for all GCSE topics](https://omegamat.sharepoint.com/sites/GSHSComputing/Shared%20Documents/Forms/AllItems.aspx?RootFolder=%2Fsites%2FGSHSComputing%2FShared%20Documents%2FGCSE%20Computer%20Science%2FKnowledge%20Organisers&FolderCTID=0x0120002CFACB1AA6133C4B90B1C7B3426ACC5B) * [Practice Papers](https://omegamat.sharepoint.com/:f:/s/GSHSComputing/EjlvfJHNBIZBlCKZp_lnbLUByPKFjADjrhxJCFIfWpU2cg?e=7OGZGF) * [GCSE Exam Revision folder on SharePoint](https://omegamat.sharepoint.com/:f:/s/GSHSComputing/Et-7snyAT8dFhY-NyMCCi3cBBeAijnrycimTRTn3qWzu1A?e=nuJFKF) * Seneca Learning * Educake | | | |