

# SUBJECT – Computer Science

Exam Board – OCR

Topics for revision	Useful resources
<p><b>Systems architecture</b> – registers, FDE cycle, factors affecting performance, embedded systems</p> <p><b>Memory</b> – RAM, ROM, virtual memory, flash memory</p> <p><b>Storage</b> – optical, magnetic, solid state, advantages and disadvantages of each, characteristics (capacity, speed, portability, durability, reliability, cost)</p> <p><b>System security</b> – different forms of attack, how to defeat them, people as a weak point, policies and procedure</p> <p><b>Systems software</b> – Functions of operating system, utility software x 4</p> <p><b>Algorithms</b> – computational thinking, binary &amp; linear search, bubble &amp; insertion &amp; merge sort.</p> <p><b>Programming techniques</b> - Sequencing, selection, iteration. Data types.</p> <p><b>Computational logic</b> - Boolean logic (AND, OR, NOT). Truth tables. MOD, exponential.</p> <p><b>Data representation</b> – binary, hex, addition, shifts. Check digits. ASCII and Unicode. Images, sound, compression.</p>	<p><a href="https://student.craigdave.org/gcse-videos">https://student.craigdave.org/gcse-videos</a></p> <p>Our resources on Teams</p> <p>Your notes in PowerPoints from year 11 (hopefully also added to OneNote)</p> <p>Your notes on OneNote from year 10</p> <p>If you want to buy a revision guide then past students really recommend this one:</p> <p>CGP GCSE Computer Science OCR Revision Guide - for exams in 2021</p> <p><a href="https://www.cgpbooks.co.uk/secondary-books/gcse/computer-science/cor41-gcse-computer-science-ocr-revision-guide">https://www.cgpbooks.co.uk/secondary-books/gcse/computer-science/cor41-gcse-computer-science-ocr-revision-guide</a></p> <p>(Be careful not to get the newer one as the spec has changed for next year's classes)</p>