

Year 11 Computer Science Revision Timetable

Mock Exams November 2025

Exams

You will have two mock exams.

1 hour Paper 1 Principles of Computer Science

1 hour Paper 2 Application of Computational Thinking on screen assessment

You will be set weekly revision homework tasks that will be accessed via Teams

Revision Resources:

Smart Revise <https://smartrevise.online/>

Quizlet <https://quizlet.com/join/NjTer8TpC>

Isaac computer science <https://isaaccomputerscience.org/>

Ada Computer science <https://adacomputerscience.org/>

Revision sessions Monday lunchtime and afterschool in L2

Week	Topic	Revised & Tested?
22nd September 2025	CPU Architecture von Neumann stored program concept and the role of main memory (RAM), CPU (control unit, arithmetic logic unit, registers), clock, address bus, data bus, control bus in the fetch-decode-execute cycle Embedded Systems understand the concept of an embedded system and what embedded systems are used for	
29 th September 2025	Secondary Storage Understand the role of secondary storage and the ways in which data is stored on devices (magnetic, optical, solid state)	
6th October 2025	Operating Systems Understand the purpose and functionality of an operating system (file management, process management, peripheral management, user management)	
13 th October 2025	Utility Software Understand the purpose and functionality of utility software (file repair, backup, data compression, disk defragmentation, anti-malware). Robust Software understand the importance of developing robust software and methods of identifying vulnerabilities (audit trails, code reviews)	

20 th October 2025	Programming Techniques Write algorithms that use variables and constants . understand the benefits of using Subprograms Data types Flowcharting and programming constructs sequence and repetition Flowcharts, pseudocode*, program code) that use sequence, selection, repetition (count-controlled, condition-controlled) and iteration (over every item in a data structure) Arithmetic, relational operators and logical operators	
27 th October 2025	Half term	
3 rd November 2025	Data Representation Binary Unsigned integers and two's complement signed integers Convert between denary and 8-bit binary numbers (0 to 255, -128 to +127) Binary Addition and subtraction Binary Shifts add together two positive binary patterns and apply logical and arithmetic binary shifts HEX why hexadecimal notation is used and be able to convert between hexadecimal and binary	
10 th November 2025	Data Representation Character Sets how computers encode characters using 7-bit ASCII Bitmaps how bitmap images are represented in binary (pixels, resolution, colour depth) Sound how analogue sound is represented in binary (amplitude, sample rate, bit depth, sample interval) Data Storage (bit, nibble, byte, kibibyte, mebibyte, gibibyte, tebibyte) and be able to construct expressions to calculate file sizes and data capacity requirements. Compression need for data compression and methods of compressing data (lossless, lossy)	
17 th November 2025	Paper 2: Programming Practice Mock Paper 1	
24 th November 2025	Mock Paper 2	