Year 10 Computer Science Revision Timetable
Mock Exams 2025

We will be asking you to revise different topics each week using weekly revision activities via a Showbie class to be completed as homework. (Ask your teacher for the class code)

Exams
You will have two mock exams.
1 hour Paper 1 Principles of Computer Science (Written exam)
1 hour Paper 2 Application of Computational Thinking (Onscreen assessment)

Revision Resources
- Use CSUK Revise https://revisecs.csuk.io/
- Exam style programming practice: EduBlocks (class code:

GCSE Edexcel Computer Science Revision Schedule

Date	Showbie Revision Mat and CSRevise Task
Week 1	**Topic 3: Computers** ☐ Stored program concept ☐ Fetch-decode-execute cycle ☐ Main memory (RAM) ☐ CPU (control unit, arithmetic logic unit, registers) ☐ Clock speed ☐ Pipelining ☐ Buses - address bus, data bus, control bus ☐ Embedded system and what embedded systems are used for
Week 2	**Topic 3: Computers** Secondary storage and the ways in which data is stored on devices: ☐ magnetic ☐ optical ☐ solid state
Week 3	**Topic 2 Data** ☐ Unsigned integers ☐ Two's complement signed integers ☐ Convert between denary and 8-bit binary numbers (0 to 255, -128 to +127) ☐ Binary addition ☐ Logical binary shift ☐ Arithmetic binary shifts ☐ Overflow ☐ Hexadecimal and binary conversions

Week 4	**Topic 2 Data**
	☐ Computers encode characters using 7-bit ASCII
	☐ Bitmap images are represented in binary (pixels, resolution, colour depth)
	☐ Analogue sound is represented in binary (amplitude, sample rate, bit depth, sample interval)
	☐ Limitations of binary representation of data when constrained by the number of available bits
	Data storage
	☐ Data storage is measured in binary multiples
	- Bit, nibble, byte, kibibyte, mebibyte, gibibyte,tebibyte
	☐ construct expressions to calculate file sizes and data capacity requirements
	Compression
	☐ Data compression and methods of compressing data
	☐ Lossless and lossy
Week 5	**Topic 3: Software**
	☐ Operating systems
	☐ OS: peripherals and user management
	☐ Utility software
Week 6	EduBlocks Practice Task 1 EduBlocks Practice Task 2
Week 7 (half–term)	**Topic 1 Computational Thinking**
	☐ Variables, constants and data types
	☐ Selection and Iteration
	☐ Flowcharts
	☐ 1D Arrays
	☐ Subprograms
Week 8	EduBlocks Practice Task 3 EduBlocks Practice Task 4
Week 9	**1 hour** Paper 1 Principles of Computer Science (Written exam)
Week 10	**1 hour** Paper 2 Application of Computational Thinking (Onscreen assessment)