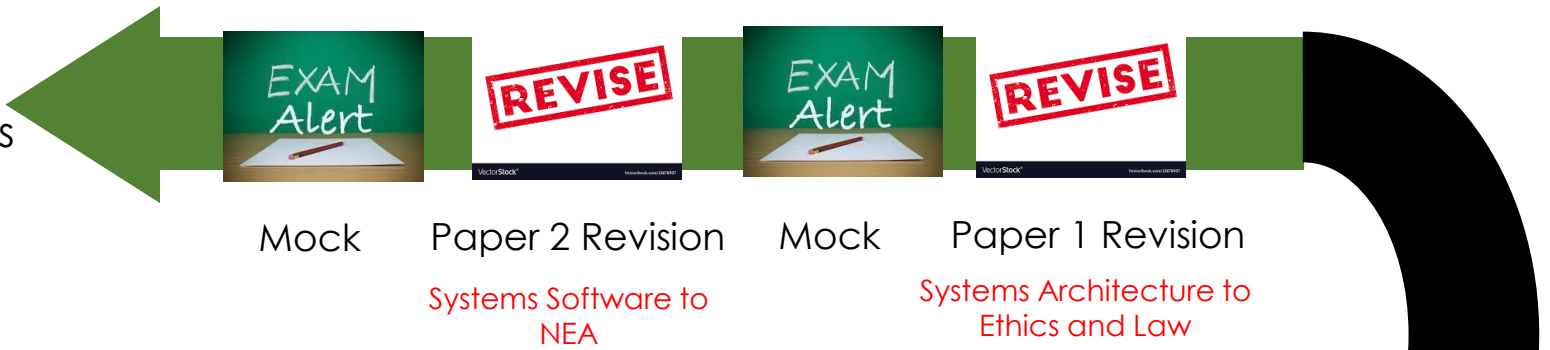


Computer Science Learning Journey

GCSE Examinations & A Level



Mock Paper 2 Revision Mock Paper 1 Revision
Systems Software to NEA Systems Architecture to Ethics and Law

YEAR 11

OCR



NEA Python Programming 2 Python Programming 1
None Examinable Assessment Programming Project Highlights programming skill
Functions Libraries Procedures File Handling
Input/Output Selection Iteration Conditions



Data Representation Translators and IDE Computational Logic
Binary Binary Operations Hexadecimal Assembler
Functions of an IDE Programming tools Translators Compilers
Logic Gates Trace Tables Truth Tables Physics to Computing

YEAR 10



Systems Software Ethics and Law Algorithms Robust Programming
Role of the OS Types of OS Embedded Systems Backups and Tools
Computer Misuse Data Protection Copyright Act Crimes
Sequencing Flowcharts Pseudocode Documentation
Error Trapping Secure Code Scope Variable Conventions



System Security Networks and Topologies Memory & Storage Systems Architecture
Firewalls Viruses and Threats Hacking Laws
Wired vs Wireless Network Topologies Protocols Layers
RAM & ROM Volatile & Non Volatile Secondary Storage Types of Storage
Function of the Processor Von Neumann Architecture Registers & Busses Fetch Execute Decode

YEAR 9

YEAR 8



Computational Thinking Python Programming Algorithms & Logic Gates
Decomposition Abstraction Algorithms Pattern Recognition
Sequence Selection Iteration Debugging Variables
Searching Algorithms Sorting Algorithms Complex Logic Gates Truth Tables



EduBlocks Computer Systems Data Representation
Algorithms Coding Concepts Programming Constructs Block Based Programming
Hardware Software Networks
Units, Binary, Denary Adding Binary Numbers ASCII

YEAR 7