

COMPUTER SCIENCE LEARNING JOURNEY

YEARS 10 - 11



Sixth Form?
College?
Apprenticeship?



GCSE EXAMS?



REVISION
DATA REPRESENTATION

REVISION
COMPUTER SYSTEMS

REVISION
ALGORITHMS



Ethical, Legal & Environmental Impacts of Digital Technology on Wider Society including Issues of Privacy

Structured Query Language

ETHICAL, LEGAL & ENVIRONMENTAL IMPACT OF DIGITAL TECHNOLOGY ON WIDER SOCIETY INCLUDING ISSUES OF PRIVACY



Fundamentals of Computer Networks



Fundamentals of Cyber Security

Social Engineering



Methods to Detect & Prevent Cyber Security Threats

FUNDAMENTALS OF COMPUTER NETWORK

FUNDAMENTALS OF CYBER SECURITY

RELATIONAL DATABASES

Relational Databases

YEAR
11



Searching Algorithms



CPU, RAM, ROM, HDD Cloud Storage & Embedded Systems



Cyber Security Threats



Malicious Code



Hardware & Software

Compressing Data

COMPUTER SYSTEMS



Representing Sound

Sorting Algorithms

Efficiency of Algorithms

High Level & Low Level Programming

Boolean Logic (AND, OR, NOT, XOR Circuits & Expressions)

Representing Images

Structured Programming & Subroutines (Procedures & Functions)

Number Bases (Binary, Denary & Hex)

Units Bits, Bytes, Kilobytes, Megabytes

Character Encoding (ASCII & Unicode)



PROGRAMMING

DATA REPRESENTATION

String Handling

AND, OR, NOT, XOR (Boolean Operations)

Robust & Secure Programming

Maths in Programming (Arithmetic Operations)

Programming Concept Selection

Representing Algorithms

Input / Output

Arrays & Lists (Data Structures)

Less than, Greater than (Relational Operations)

Programming Concept Heration

Data Types

PROGRAMMING

ALGORITHMS

YEAR
10



welcome