

Computer Science

Further Education
or Apprenticeships

SUCCESS COMES
FROM
HARDWORK



FINAL
GCSE
EXAM

EXAM
REVISION

Logic and Languages

Logic diagrams and truth tables, defensive design, errors and testing, translators, facilities of languages, IDEs

Programming

How to write programs to solve problems?

Algorithms

Computational thinking, searching algorithms, sorting algorithms, flow diagrams, Pseudocode, Interpreting, correcting and completing algorithms

PPE



YEAR
11

System Architecture

Von Neumann, CPU, RAM, ROM, Cache, Registers, Virtual Memory, Storage

Data Representation

How is data represented?

Networks, Connections and Protocols
How do they work?

Network Security and Systems Software

Impacts of Digital Technology



End of Year Test

Welcome to your GCSE

Networks
Protocols
Topologies

Python Project

Hardware
CPU
Registers – Yay!



Programming Theory
How and why we program



Python II
Write advanced computer programs

YEAR
10

Graphics Project and 3D Animation
Learn how to use graphics programs

Developing for the Web

Can you design and make your own site?

End of Unit Test

Python Project



Welcome Back – E-safety

Data Representation
How is data represented?

Cyber Security
Can you stay safe online and avoid cyber criminals?

Mobile App Development
Can you design an app for that?

End of Year Test!
How will you do?

YEAR
9

End of Unit Test

Spreadsheets
Why are these useful and what could you use these for?



Python
Write basic computer programs

E-Safety
Staying safe online

KS4

End of Unit Test

Welcome Back - Baseline

Computer Systems
Learn how computer system works

Edu blocks Programming
Visual language programming.



End of Unit Test

End of Unit Test

YEAR
8

Scratch
Introduce concepts with a visual language



End of Unit Test



Idea Skills badges



YEAR
7

Using Media

Can you use IT to change the world?



Computer Networks

What are Computer Networks and how they work?

E-Safety
Staying safe online

Getting Started
Intro to Network Baseline

KS3