

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

Python Coding

Welcome to your GCSE

Networks

Protocols Topologies

Hardware

CPU Registers – Yay!



Programming Theory

How and why we program



Media Animations

Learn to animate with Blender. Make 3D Models

YEAR 10

Representations

Going audiovisual

End of Unit Test

End of Unit Test

End of Unit Test

Cyber Security

Stay safe online

Data Science

How can we find patterns in data?

Introduction to Python

Learn to code in the Python language?



End of Unit Test

Python

Programming with sequences of data

Data Representation

How is data represented in a computer?

Mobile App Development

Can you design an app for that?

End of Unit Test

End of Unit Test

YEAR 9

Computing Systems

What makes a computing system?

Media

Using Vector Graphics

KS4

End of Unit Test

End of Unit Test

End of Unit Test

Welcome Back - Baseline

Modelling Data

Using spreadsheets

Programming Essentials

Using Scratch



Using Media

Gain support for a cause.

End of Unit Test

End of Unit Test

End of Unit Test

YEAR 8



Scratch

Introduce coding concepts with a visual language



KS3

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End of Unit Test

Gaining Skills

YEAR 7

Computer Networks

What are Computer Networks and how they work?



Digital Media

Make clear messages

Getting Started

Intro to Network Baseline