

Computing Learning Journey

GCSE
Exams

SIXTH FORM

A-Level Computer Science:

You will learn in detail about all area of the computer and digital communication. You will develop strong programming skills and produce real-world software applications.

You will use a range of hardware and software which is suited to your academic interests.



Security:

Develop an understanding of how computers are attacked and defended from attacks.

Revision



Mocks

Networks: Developing a knowledge of networks and how we can defend them from attacks.

Programming:

Developing efficient programming skills using external data.



YEAR 11

Computer Systems:

Exploring the world of computing by studying an overview of all elements of the computer and their uses.

Revision

Mocks

Game Programming:

Using your knowledge of programming to create simple games.



Programming 1.0:

Learn skills to be able to solve real world problems using Python.



App Design:

Design phone apps for specific purposes.



Python 2.0:

Developing advanced programming skills.



YEAR 10

Video:

Explore the meaning of video. Design and produce a video to advertise your App.



UI/UX Design:

Design interfaces and experiences for Apps.



E-Safety 3.0:

Exploring online identity and reputation.

E-Safety 2.0:

Behaving appropriately in online situations and identifying fake-news.



Machine Learning:

Training a computer to recognise objects and people.



Python 1:

Programming using a textual language.



YEAR 9

Data Representation:

Exploring how data is stored and manipulated to represent the real world.



Physical Computing:

Programming for real world devices



Photoshop:

Design a composite image.



YEAR 8

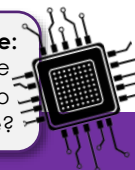
Scratch Programming:

Creating simple games using block-based programming.



Computer Hardware:

What makes up the computer? How do they communicate?



Data Project:

Design a plane and fly it to collect data. Review the data and produce graphs and charts.

Computational Thinking:

Learning to think and plan logically and efficiently.



E-Safety:

How do we use school systems? How do we stay safe online?



YEAR 7