

Enjoy the Summer Holiday.

Continue your lifelong love of learning as you transition to further or higher education

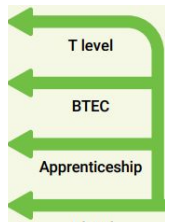
Look at all the different options in your further education **Check out some amazing places**

Apply for University through UCAS or alternative post 18 courses



Revise for and sit your A LEVELs feeling confident

Further Education Getting ready for University



Autumn 1
Developing programming knowledge and use of IDE tools required to develop final project

Autumn 2 Languages
High level languages
Low level languages
The purpose of translators.
The characteristics of compiler and interpreters

Spring 2
Practical Programming developing Planning, Design, Coding, Testing and Evaluation techniques

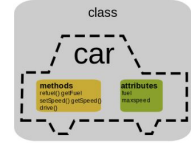
Spring 1
Introduction of Practical Programming task. Using high level programming languages 'Python'/C++,PHP or Java to create designs final project

Summer 1
Re-enforcing know of the IDE – Independent Development Environment. : Editors, Error diagnostics, Run time Environment and Translators

NEXT STEPS

Summer 2
Final completion of project and revision

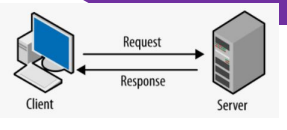
YEAR 13



Summer 2
Programming Paradigms Procedural, Assembly and OOP

Go to university to enhance your knowledge and get a degree

Summer 1
Computational thinking: Solving problems effectively



Spring 1
Networks and internet: Learning what a network is

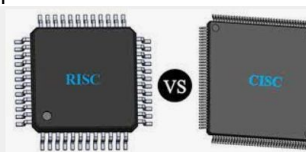


Spring 2
Software & development Comparing the system life cycle, Waterfall, Agile development method

Spring 1
Application, Open/Close Source software. Translators, Interpreter, compilers and assembly languages
The stages of compilation

Autumn 2
Memory management (paging, segmentation & Virtual Memory Interrupts ISR

Autumn 1
Computer Systems Structure and function of the processor. RISC/CISC GPU



Summer 2
Internet, and Web Technology HTML

YEAR 12

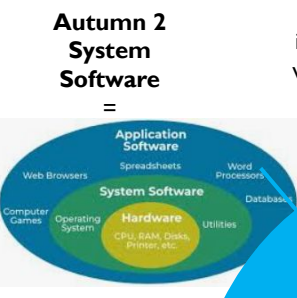
Summer 1
Database: Learning record, sort and filter data. Using SQL



Autumn 1
Algorithms and debugging: Understanding what algorithms are and into to loops

Summer 2
ICT and the Law Ethical and Cultural Issues

Spring 2
Data representation Binary, ASCII, Binary Addition, Multiplication HEX, Image and Sound

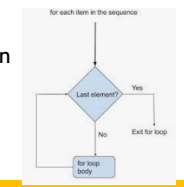


Autumn 1
Computer Architecture Start-up process the FDE cycle Primary and secondary storage



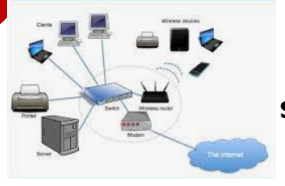
YEAR 10

Summer 2
Audacity/Sound Trap Digital Sound manipulation

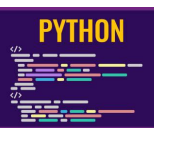


Summer 1
Networking – Client Server and Peer to Peer Internet DNS, IP Addressing/

Spring 2
Programming – Python Next steps Understanding Selection(if/else) Iteration (for and while loops)



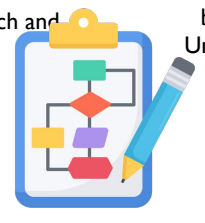
Autumn 2
Advance Python Programming Sequence, selection & Iterations. Functions, writing to file



Autumn 1
Cyber Security Data protection, Netiquette

YEAR 9

Spring 1
Computational Thinking# Search and Sorting .Algorithms



Autumn 2
Control System Flowal



Spring 2
Programming – Introduction to text base programming using Python Understanding variables, sequences of code and data tvoes



Summer 1
Understanding Computers, Binary,ASCII, Binary Addition.



Summer 2
Multimedia Project HTML Website design: How web pages and sites are created and using Mark up language to add text and images



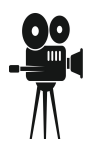
Getting ready for options



Autumn 1
Cyber Crime Internet security and online criminal activities



Summer 1
Multimedia Presentation



Summer 2
Introduction to Spreadsheets



YEAR 8

Spring 2
Game Programming using Scratch using loops, variables and sensors



Spring 1
Computer Networks LAN/WAN Network Hardware, Bandwidth, Network Protocols

Autumn 2
Understanding Computers Hardware and Software



Autumn 1
Collaborating online respectfully- Computer Safety and E-Safety



YEAR 7