IT & COMPUTER SCIENCE CURRICULUM LEARNING JOURNEY

Y7
- Digital Literacy
- Online Safety
- Understanding Data
- Physical Programming Turtle
- Graphical Programming Scratch
- Kodu Games Design

Y8
- Make Code Arcade
- Text Based Programming Python
- Physical Computing Micro:Bit
- Managing Data
- Online Safety Online conduct
- Computer Fundamentals

Y9
- Computer Impacts
- Analysing Data
- Online Safety Reputation
- Manipulating Data
- Text Based Programming - The basic;
- Advanced text programming

BTEC Digital Information Technology

Y10
- Component 1- Learning Aim A User Interface Theory - Types of Interfaces - Design Principles - Improving interfaces and Accessibility
- Component 1 - Learning Aim B User Interface Design - Project Planning - Managing Risks and Constraints - Designing and Testing an Interface
- Component 1 - Learning Aim C Improving Interfaces - Testing and Gathering User Feedback on a User Interface - Refining and Evaluating a User Interface
- Component 2 - Learning Aim A The role of Data in Organisations - Types and Quality of Data - Data Collection - Big Data - Using Data to Make Decisions
- Component 2 - Learning Aim B Creating a Data Dashboard - Excel Pivot Tables - Excel Charts - VB Macros - Data Analytical Skills

Y11
- Component 2- Learning Aim C Drawing Conclusions from Data - Analysing Charts for Trends and Patterns in data. - Understanding data to make business decisions and suggestions
- Component 3 Exam
- IT Charts and Planning
- Wider implications
- Cyber Security
- Ad Hoe Networks and The Cloud

Sixth Form and College Course
IT Services
Web Design
Games Design

Possible Careers
IT Technician
Web Designer
Games Designer

OCR GCSE Computer Science

Y11
- NetaSystem Security and Ethicsworking and Protocols
- System Software
- Networking and Protocols
- Data Representation and Binary
- Memory and Storage
- System Architecture
- Python Programming -External Text files and CSVs -Error Handling
- Python Programming -Variables -Data Types -Selection -Iteration -Arrays
- Algorithms and Computational Thinking
- Translators, IDES and Robust Programs
- Computational Logic
- Paper 1 & Paper 2
- Extended Python Programming Project
- Databases

Sixth Form and College Course
Computer Science
Engineering
Software Development
Mathematics

Possible Careers
Software Engineer
Computer Systems Engineer
Project Manager