

Curriculum Map- Computer Science 2021-22

Below is a curriculum map, showing what is taught at each stage of the year.

	Term 1.1	Term 1.2	Term 2.1	Term 2.2	Term 3.1	Term 3.2
Year 7	Intro to Computer Science ESafety, Online working, Collaboration, GSuite	Working with Data Introduction to spreadsheets, data types and data handling	Programming Programming essentials using BBC Micro:bit Programming Constructs, Variables, and Data Types using a block language	Networks and the Internet Introduction to computer networks, how data is transmitted and the development of the internet	Using Media Using applications to develop multimedia content.	
Year 8	Introduction to Computer System Investigating the 3 layers of Hardware, Software and Operating System	Working with Data Introduction to spreadsheets, data types and data handling	Programming An introduction to Python Programming Constructs, Variables, Data Types, Data Handling and GUI design using the Python programming language	Media - Vector Graphics Using Shapes, paths and nodes to create icons as a vector image.	Developing for the Web Creating a web page, HTML, CSS, considering sources and images.	
Year 9	Introduction to Computer System Investigating the 3 layers of Hardware, Software and Operating System	Working with Data Introduction to spreadsheets, data types and data handling	Programming An introduction to Python Programming Constructs, Variables, Data Types, Data Handling and GUI design using the Python programming language	Media - Animation Colour, Scale, Rotate, Move. Complex models and organisation. Rendering video files.	Developing for the Web Creating a web page, HTML, CSS, considering sources and images.	
Year 10	Exploring User Interface Design Principles and Project Planning Techniques Interface Design and Development for individuals and organisations, Project Planning and Interface Reviews.				Collecting, Presenting and Interpreting Data Data Collection and the impact on individuals. Data Processing and Modelling.	
Year 11	Collecting, Presenting and Interpreting Data (Cont.) Data Processing (2) and Producing Summaries and Reports, incl Dashboards.		Effective Digital Working Practices Modern Technologies: Wireless Technologies and Cloud-based Computing. Impact of Modern Technologies: Collaboration, Accessibility, Inclusivity and Communications. Cyber Security: Threats to Data, Policies and the Impact of Breaches. Legal and Ethical Issues of technology and its use. Planning and Communication.			
KS4 Core IT	Data Modelling, Manipulation and Reporting Using spreadsheets to handle data and create complex models Computing Systems and The Impact of Technology Computer Networks, Artificial Intelligence and Ethical Issues Cyber Security Data Protection, Security Threats and the Impact of Security Breaches.					

** KS4 will be starting from September 2022