

Year	Autumn	Spring	Summer
7	<p>E-Safety including cyber bullying and digital footprints.</p> <p>Office Skills including email, Teams and online systems use.</p>	<p>E-Safety including cyber bullying and digital footprints.</p> <p>Introduction to Computer Systems including hardware, software, storage devices, networks and network security.</p>	<p>E-Safety including cyber bullying and digital footprints.</p> <p>Photoshop, looking at image manipulation in the media and using skills learnt to create an image based on a given scenario.</p> <p>Scratch, a block-based visual programming language where students learn coding concepts and develop a game based around the classic PONG theme.</p>
8	<p>E-Safety including body image and social media.</p> <p>Intermediate Computer Systems including binary, sorting algorithms, network topologies, computer logic and data representation.</p>	<p>E-Safety including body image and social media.</p> <p>Vector Graphics including digital graphic properties, branding and image editing skills.</p>	<p>E-Safety including body image and social media.</p> <p>GameMaker, a high-level visual programming language where students learn coding concepts, basic scripting and develop a maze game of their own theme, similar to that of PAC MAN.</p>

		Cyber Security , discovery of techniques that cybercriminals use to steal data, disrupt systems, and infiltrate networks.	
9	<p>E-Safety including grooming, inappropriate content and messaging.</p> <p>Python including sequence, selection, iteration and string manipulation.</p>	<p>E-Safety including grooming, inappropriate content and messaging.</p> <p>Interactive Multimedia Products, students design and create a product for a given scenario, including video, sound, and animation.</p> <p>Photoshop, looking at image manipulation in the media and using skills learnt to create an image based on a given scenario.</p>	<p>E-Safety including grooming, inappropriate content and messaging.</p> <p>Digital Literacy Skills, students will be empowered with knowledge and skills to enable them to be exceptional digital citizens of today's digital world.</p>
10	<p>Systems architecture including the CPU, its purpose and how it impacts performance, Von Neumann Architecture and embedded systems.</p> <p>Memory and storage including primary, secondary, units, data representation and compression.</p>	<p>Programming fundamentals including sequence, selection, iteration and string manipulation.</p> <p>Computer networks, connections and protocols including types of factors effecting the performance of, hardware required for networks. Also, network topologies and methods of connection.</p>	<p>Ethical, legal, cultural & environmental impacts of Digital Technology.</p> <p>Programming fundamentals including sequence, selection, iteration and string manipulation.</p>

		<p>Network security including threats to computer systems and how to protect against vulnerabilities.</p> <p>Systems software including both operating, application and utility software.</p>	
11	<p>Programming fundamentals including sequence, selection, iteration and string manipulation.</p> <p>Additional programming techniques including records to store data, SQL, arrays and subprograms.</p> <p>Producing robust programs including defensive design and testing.</p> <p>Boolean logic including common arithmetic operators.</p> <p>Programming languages and Integrated Development Environments including characteristics of purpose of and facilities available in.</p>	Component 1 and component 2 revision.	Component 1 and component 2 revision.

Curriculum Overview – Computer Science- Shotton Hall.