



## Curriculum Sequencing - Year 8

<b>Year 8 Term 1a:</b>	Digital Literacy
<b>Topics covered:</b>	Understanding Digital Footprints Online Safety and Privacy Responsible Use of Social Media Evaluating Online Information Introduction to Binary and Hexadecimal
<b>How it links to what has been studied before:</b>	Students have been taught the importance of online safety in an ever changing digital world.
<b>How it links to what will be studied:</b>	Students are reminded and updated of this importance
<b>Key words:</b>	Digital Footprint Online Safety Privacy Responsible Social Media Online Information Binary Hexadecimal
<b>Assessment focus</b>	Lesson 1 = Computer Science Baseline, Lessons 2-6 have an a formative assessment. Lesson 7 is a summative assessment.
<b>Revision tips</b>	Revise the content from the lesson slides and exit tickets. <a href="#">BBC Bitesize Revision</a>
<b>Key skills:</b>	<b>Technical Proficiency:</b> Students will become adept at using various digital tools and software, which is fundamental for completing academic assignments and future job tasks. <b>Information Evaluation:</b> They will learn to critically evaluate online information for credibility and reliability, essential for research and informed decision-making. <b>Effective Communication:</b> The project will teach students how to communicate clearly and effectively through digital platforms, including email, social media, and collaborative tools. <b>Safe and Responsible Online Behavior:</b> Students will understand the importance of digital ethics, including privacy, cybersecurity, and responsible social media use, ensuring their online interactions are safe and respectful. <b>Problem-Solving and Creativity:</b> The project fosters creativity and problem-solving skills by encouraging students to create digital content, solve technical issues, and think innovatively in a digital context.
<b>Why we study it:</b>	To gain essential skills for the modern world. It enables them to use and evaluate technology effectively, communicate, collaborate, and create content efficiently. Digital literacy also promotes safe and responsible online behavior and lays a foundation for future academic and professional success. Mastering these skills at KS3 prepares students for a rapidly evolving digital landscape, enhancing their lifelong learning and adaptability.
<b>Mastery in this subject</b>	Students start with foundational concepts to build a secure understanding. Mastery involves engaging in more detailed explorations, fostering deeper learning and stronger retention. Ultimate mastery of the concepts is via more complex tasks, promoting higher-order thinking skills and greater subject fluency.

<b>Year 8 Term 1b:</b>	Computers & Networks
<b>Topics covered:</b>	<p>Components of a Computer System</p> <p>Introduction to Operating Systems</p> <p>Understanding Networks</p> <p>Internet and Communication Protocols</p> <p>Cybersecurity Fundamentals</p> <p>Cloud Computing and Virtualisation</p>
<b>How it links to what has been studied before:</b>	By applying foundational skills in safe internet use, troubleshooting, and digital tools to more complex tasks like setting up networks, understanding computer components, and implementing cybersecurity. This progression ensures students are well-prepared for advanced concepts in computing and networking.
<b>How it links to what will be studied:</b>	This project serves as a bridge to more advanced studies, laying the groundwork for understanding network protocols, internet structure, and network security. Mastery of these topics will prepare students for future coursework in computer science and cybersecurity, enabling them to design, manage, and protect networked systems effectively.
<b>Key words:</b>	<p>CPU</p> <p>RAM</p> <p>Graphics card</p> <p>Operating System</p> <p>Network</p> <p>LAN</p> <p>WAN</p> <p>Protocol</p> <p>Cybersecurity</p> <p>Cloud Computing</p> <p>Virtualisation</p>
<b>Key skills:</b>	Revise the content from the lesson slides and exit tickets. <a href="#">BBC Bitesize Revision</a>
<b>Assessment focus</b>	Each lesson has an exit ticket as a formative assessment. The last lesson of the term is a summative assessment.
<b>Revision tips</b>	Revise the content from the lesson slides and exit tickets. <a href="#">BBC Bitesize Revision</a>
<b>Why we study it:</b>	Equips students with essential knowledge of computer operations and network management. This foundation is crucial in today's digital world, enabling students to understand hardware, networks, and ensure cybersecurity. These skills are vital for future academic and career pursuits in technology, and they enhance students' ability to navigate and use digital environments securely.
<b>Mastery in this subject</b>	At home activities such as building computer models, setting up and configuring networks, and practicing cybersecurity measures. Engaging in collaborative group work, completing practical assignments, and utilizing available resources like online tutorials and teacher guidance will also reinforce their understanding and skills in this area. Regularly reviewing key concepts and applying them to real-world scenarios will ensure a thorough grasp of the subject matter.