

YEAR 10 CURRICULUM INFORMATION - COMPUTING		
	Spring 1	Spring 2
What will students be learning?	Topic 1.3 Computer networks, connections and protocols Students will learn about the following: Networks and topologies	Topic 1.4 Network Security Students will learn about the following: Threats to computer systems and networks • Malware • Social engineering, e.g. phishing, people as the 'weak point' • Brute-force attacks • Denial of service attacks • Data interception and theft • The concept of SQL injection Identifying and preventing vulnerabilities • Penetration testing • Anti-malware software • Firewalls • User access levels • Passwords • Encryption • Physical security
How will students be	Students will be assessed on each main topic in the specification with a v	Topic 1.5 Systems Software Students will learn about the following: • The purpose and functionality of operating systems • The purpose and functionality of utility software • Utility system software written test based on exam style questions.
assessed? Literacy – What keywords will be taught?	 Topology Client-server Peer-to-peer network Bandwidth Protocol Hosting Ethernet Bluetooth 	 Malware Social engineering Firewall Brute-force attack Denial of service attack Drivers Disk-defragmentation User interface



What employability skills	Logical reasoning, numeracy, information use, thinking skills, self-management, written communication.	
are being developed?		
Wider Curriculum Links?	English – written analysis, writing to advise	
What useful websites are	GCSE Computer Science - OCR - BBC Bitesize	
there for this topic?	Teach-ict.com for information, quizzes, videos, exam questions for each topic (username and password for this website is provided to	
	students by their teacher) GCSE Computer Science 9-1 J277 OCR syllabus (teach-ict.com)	
	Videos on each topic of the course - GCSE (J277): OCR Specification Order - YouTube	
What wider reading could	Course information can be found on this website GCSE - Computer Science (9-1) - J277 (from 2020) - OCR	
be done for this topic?		
What else can students	Go onto Seneca Learning at complete the OCR Computer Science course. https://senecalearning.com/	
be doing independently	Complete the revision tasks on the website <u>eRevision</u>	
to develop their		
understanding of this		
topic?		