

Key Stage 3 Curriculum Map 2019 - 2020

Term 2

Year Group: 9	Subject: Computer Science		
Focus/Topic	Objectives	Key Skills	Home Learning/Recommended Reading
Computer Crime and Cyber Security – Email	 Identify common types of computer crime Look at examples of computer crime on the Internet Learn about different types of email scam Recognise the signs of fraudulent emails 	PhishingTrojan horse/malwareVirusEmail attachments	• See MS Teams
Computer Crime and Cyber Security – Hacking	 Learn about the Computer Misuse Act – which makes certain activities illegal Look at examples of computer misuse Understand what is meant by hacking Understand what is meant by malware Learn ways to protect yourself from malware & hacking 	 Computer misuse act Logicbomb Anti-Malware and antiviruses Passwords 	
 Computer Crime and Cyber Security – Protecting personal data 	Be aware of who might hold personal data about you	Data protection actIdentify theft	

	 Discuss the need for various organisations to hold data about you 		
	Be aware of the possibility of		
	identity theftKnow how to minimize the chance of		
	identity theft		
 Computer Crime and Cyber Security – Copyright protection 	 Learn about Copyright law, what it says and what it means 	Copyright lawApple vs Samsung	
	 Look at examples of copyright infringement 		
	 Understand the damage that illegal copying does to individuals, companies and society Compare copyright infringement with plagiarism 		See MS Teams
 Computer Crime and Cyber Security – Health & Safety 	Learn about some of the common health and safety problems associated with computer use	Health and safety at your workstation	
	 Learn ways of avoiding these problems Learn about Health and Safety law 		
Computer Crime and Cyber Security – assessment			
	Mid Term Break		
 Cryptography - Encryption, Decryption and Keys 	 "Summarise simple methods for encrypting data" 	 What is cryptography Caesar cipher and Frequency Analysis Vignere Cipher 	
 Cryptography - Coding the Caesar Cipher 	"Construct a simple Caesar Cipher"	Encrypting data	Soo MC Tarres
Cryptography - Hashing Passwords	"Establish the importance of choosing strong passwords"	 What hashing is and examples of hashing MD5 hashing algorithm and salting 	See MS Teams
 Cryptography - Decrypting the Caesar Cipher 	 "Build a decryption tool for a Caesar Cipher" 	Decrypting data	

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