## Networks and Cyber Security

Knowledge Organiser

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	Networks				Cyber Security CS			Key Vocabulary			
Ι	Types of Network		Personal Area Network (PAN) Local Area Network (LAN) Wide Area Network (WAN) Wired (Cables can be copper or fibre optic) Wireless (radiowaves) Star Bus Star Bus MAC address on all devices IP address to join internet		I	Purpose of cyber security	to reduce the risk of cyber attacks, and protect against the unauthorised exploitation of networks and technology.	I	Network	<ul> <li>is a set of computers connected together for the purposes of communication and sharing resources.</li> <li>is a program that follows rules that define communication between two or more devices in a network.</li> <li>is the arrangement of the devices of a communication network</li> </ul>	
2	Connection Topology Address				2	Cyber security threats	Social engineering, Malicious		Natural		
3							software, weak and default passwords, misconfigured access rights, removable media, outdated software	2	Network protocol		
4						Social engineering	Explain the following; blagging, phishing, pharming, shouldering (or shoulder	3	Topology		
	Network protocols and Security					surfing)			network.		
1	Connecti	nnection WiFi wireless ne technologies			4	Malicious software	Describe the following; virus, Trojan, spyware, adware, ransomware	4	Internet	is the global system of interconnected computer networks	
2	Internet		uses the Internet protocol		Detect and prevent CS threats			5	Cyber	is the technology, and	
	Protocol		suite to communicate between networks and devices		s I	Understand	Biometric measures (esp for		Security	controls to protect networks, programs, devices and data	
3	World w	ide	HTTP(S) is the protocol used			and explain	mobile devices) Password systems, CAPTCHA (or similar) Email confirmation to			from cyber attacks	
	web (ww	w.)				Security measures		6	Social	is malicious activities to trick users into making security	
4	Email		SMTP simple mail transfer IMAP internet message acce	ess			confirm users identitity, Automatic software updates		engineering	mistakes or giving away sensitive information.	
5	Network Security		Authentication, encryption, firewall, MAC address filterin	ng	2	Protect from threats	Social engineering Malware	7	Malware	Malicious softw harm or affect a	