/Computing@Balcarras_



	YEAR		TERM	
A-Level Computer Science (OCR)		13		2
	UNIT			
Ν	Networking			
	INTENT			
PRIOR LEARNING (TOPIC) – GCSE Networking				
Computer networks are integral to modern life. This unit aims to explore how data is transferred over networks, such as The Internet. This includes understanding some of the key protocols used in the OSI model. Beyond this, pupils will also learn about some of the accompanying technology, such as learning the fundamentals of HTML, CSS and JavaScript.		Specification Points: This unit covers points 1.3.1, 1.3.3 and 1.3.4		
FUTURE LEARNING (TOPIC): Post-18 Network E	ingineering Courses	<u>+</u>		
 Common forms of hardware used in networking. The structure of the Internet. A range of common networking protocols. A range of network security threats and how to mitigate these. The fundamentals of HTML, JavaScript and CSS. How webpages are indexed and ranked. Client-server and peer to peer networking, including the benefits of client and server-side processing. 		mark in- the end from wh into an <i>i</i> In additi complet question and as p		
HELPFUL READING/FURTHER DISCUSSION READING/EXTRA-LEARNING There are an enormous number of online courses and tutorials to help pupils develop their computer science skills further. Visit the Next Steps section of the Computing	CAREERS The skills / knowledge learnt in thi unit lead perfectly into a wide arra of careers including network engineering and cyber security.		nis D ray Ro	/IDER SKILLS igital Literacy esilience ritical Thinking

Lossy, Lossless, RLE, symmetrical, asymmetrical, hashing, protocols, TCP/IP, DNS, Layering, LAN, WAN, packet switching, firewall, proxy, switch, router, NIC, IP, MAC, client, server, HTML, CSS, PageRank, web crawler.