MAGHULL HIGH SCHOOL – CURRICULUM MAP



HALF TERM 2.1 Jan - Feb	Lessons 1 - 12	Lesson 13 - 15	
TOPIC (S)	Computer networks, connections and protocols, plus programming skills	Dedicated programming skills	
Knowledge & Skills	What are the characteristics of LANs and WANs?	Gain experience in practical	
development	What can affect the performance of a network?	programming using TIME model	
	What are the differences between peer-to-peer and client-server networks?		
	How do you set up a LAN?		
	How does The Internet work?		
	Why is a mesh network better than a star network?		
	Which is better, a wired or wireless network?		
	What is the purpose of encryption?		
	What are the differences between three types of network device addresses?		
	What are standards and protocols?		
	What are the benefits of layering protocols?		
Assessment /	Classroom activity - Class Discussion - Questioning pupils – verbal feedback	Classroom activity - Class	
Feedback		Discussion - Questioning pupils –	
Opportunities		verbal feedback	
Cultural Capital	Problem solving		
	Impact of technology on the world		
SMSC / Promoting	Listening to others		
British Values	Responding suitable in discussions		
(Democracy, Liberty,	Taking part in group activates		
Rule of Law,			
Tolerance & Respect)			
Reading	Instructional Reading		
opportunities	Key word Identification		
	Decomposition and Abstraction		
Key Vocabulary	LAN, WAN, Client-server network, Peer-to-peer network, Wireless access point, Router, Switch, NIC, Transmission media, The Internet, DNS,		
	Hosting, The cloud, Web server, Client, Network topology, Star topology, Mesh topology, Wired connection, Ethernet, Wireless connection, WiFi,		
	Bluetooth, Encryption, IP address, MAC address, Standards, Protocol, TCP/IP, HTTP, HTTPS, FTP, POP, IMAP, SMTP, Protocol layering		
Digital Literacy	Use of technology		
	Understanding of how technology works		
Careers	Network Administrator – Network System Engineer - Network Programmer/Analyst - Network Systems Manager		