MAGHULL HIGH SCHOOL – CURRICULUM MAP



HALF TERM 2.2 Feb - Apr	Week 22	Week 23 – 24	Week 25	Week 26-27
TOPIC (S)	Dedicated programming skills	1.11 Networks	Dedicated programming skills	1.12 Web Technologies
Knowledge & Skills development	Gain experience in practical programming using TIME model	What is a network and why are they more useful than stand-alone computers? What are the definitions of standards and protocols, and why are they needed? What are the typical standards and protocols used in networking today? What does protocol layering mean and why is it needed? How does the internet work using TCP/IP? How does the domain name system work using recursive domain name servers? How does circuit switching work? How does packet switching work? What are the differences between local and wide area networks? What are the threats to network security and how can they be mitigated? What are the threats to network security and how can they be mitigated? How are devices on local area networks connected? What are the differences between a client-server and peer-to-peer network topology?	Gain experience in practical programming using TIME model	How does a browser display a web page using HTML and CSS? How does a browser display a web page using HTML and CSS? How does a browser display a web page using HTML and CSS? How does a browser display a web page using HTML and CSS? How do search engines work? How is client- and server-side processing used with dynamic web pages, and what are the advantages of each method?
Assessment /	Classroom activity -	Classroom activity - Class Discussion - Questioning	Classroom activity - Class	Classroom activity - Class
Feedback	Class Discussion -	pupils – verbal feedback – exam questions	Discussion - Questioning	Discussion - Questioning pupils –
Opportunities	Questioning pupils – verbal feedback		pupils – verbal feedback	verbal feedback – exam questions
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	Key word Identification			
opportunities	Decomposition and Abstraction			
	The Principles of Beautiful Web Design: Designing Great Web Sites is Not Rocket Science			
	Web Design Playground: HTML & CSS the Interactive Way			
	UX Design 2020: The Ultimate Beginner's Guide to User Experience			
Key Vocabulary	Protocol, TCP/IP stack, DNS, Protocol layering, LAN, WAN, Packet	HTML, CSS, JavaScript, Search engine indexing, PageRank algorithm,		
	switching, Circuit switching, Firewall, Proxies, Encryption, Client-server,	Server side processing, Client side processing		
	Peer-to-peer			
Digital Literacy	Use of technology			
	Understanding of how technology works			
Careers	Web developer – Search Engine Optimiser – Web Content Manager – Web graphic design – UI design – UX design - IT manager – Network			
	manager – System analysist			