## MAGHULL HIGH SCHOOL – CURRICULUM MAP



HALF TERM 2.2 Feb - Apr	Lessons 1 - 2	Lesson 3 - 5	Lessons 6 - 15
TOPIC (S)	Computer networks, connections and protocols Assessment and DIRT	Dedicated programming skills	Network security
Knowledge & Skills development	End of topic test Action / Response lessons	Gain experience in practical programming using TIME model	Understand the different forms of attack to computer systems.  Understand the threat from malware and protect against malware  Understand phishing and protect against phishing  Understand brute force attacks and protect against brute force attacks.  Understand denial of service attacks and protect against denial of service attacks  Understand data interception and theft as a security threat and protect against data interception.  Understand the concept of SQL injection and protect against SQL injection.  Understand ways in which people are a weak point in secure systems.  Know how prevention methods help again the various forms of attack
Assessment / Feedback Opportunities	Written Assessment	Classroom activity - Class Discussion - Questioning pupils – verbal feedback	Classroom activity - Class Discussion - Questioning pupils – verbal feedback
Cultural Capital	Problem solving Impact of Technology on the World		
SMSC / Promoting British Values (Democracy, Liberty, Rule of Law, Tolerance & Respect)	<ul> <li>Listening to others</li> <li>Responding suitable in discussions</li> <li>Taking part in group activates</li> </ul>		
Reading opportunities	Instructional Reading Key word Identification Decomposition and Abstraction		
Key Vocabulary	Malware, Social engineering, Phishing, Brute-force attack, Denial of service attack, Data interception and theft, SQL injection, Penetration testing, Anti-malware software, Firewall, User access level, Password, Physical security		
Digital Literacy	Use of technology Understanding of how technology works		
Careers	Network Administrator – Network System Engineer - Network Programmer/Analyst - Network Systems Manager – Cyber Security		