



MAGHULL HIGH SCHOOL – CURRICULUM MAP

HALF TERM 3.2 Jun - Jul	Week 33	Week 34 - 35	Week 36	Week 37	Week 38	Week 39
TOPIC (S)	1.14 Data Structures	1.15 Boolean Algebra	Project	1.16 Computer-related legislation	1.17 Ethical, moral and cultural issues	Project
Knowledge & Skills development	Same as lessons 181-185	<p>What are the Boolean operators and their associated logic gate symbols?</p> <p>What are the Boolean operators and their associated logic gate symbols?</p> <p>How can Karnaugh maps be used to simplify Boolean expressions?</p> <p>How do you translate a logic gate diagram into its associated truth table and Boolean expression and vice versa?</p> <p>What are the rules for simplifying Boolean expressions?</p> <p>What does a simple ALU circuit look like and how does it work?</p>	Understand what is required at the definition stage of the project	<p>What are the principles of the Data Protection laws?</p> <p>How does the DPA affect what organisations can and cannot do with stored data?</p> <p>What is the purpose of the Computer Misuse Act and what does it prohibit?</p> <p>What is the purpose of the Copyright Design and Patents Act and what does it prohibit?</p> <p>What is the purpose of the Regulation of Investigatory Powers Act and what does it enable?</p>	The individual (moral), social (ethical) and cultural opportunities and risks of digital technology:	Understand what is required at the Analysis stage of the project
Assessment / Feedback Opportunities	Classroom activity - Class Discussion - Questioning pupils –	Classroom activity - Class Discussion - Questioning pupils –	Classroom activity - Class Discussion - Questioning pupils – verbal feedback	Classroom activity - Class Discussion - Questioning pupils –	Classroom activity - Class Discussion - Questioning pupils –	Classroom activity - Class Discussion - Questioning pupils – verbal feedback

	verbal feedback – exam questions	verbal feedback – exam questions		verbal feedback – exam questions	verbal feedback – exam questions	
Cultural Capital	Problem solving Impact of technology on the world					
SMSC / Promoting British Values (Democracy, Liberty, Rule of Law, Tolerance & Respect)	<ul style="list-style-type: none">• Listening to others• Responding suitable in discussions• Taking part in group activates					
Reading opportunities	Key word Identification Decomposition and Abstraction					
Key Vocabulary	Boolean logic, Karnaugh maps, Boolean algebra, De Morgan’s law, Distribution, Association, Commutation, Double negation, Logic gate diagram, Truth table, D type flip flops, Half adders, Full adders		GDPR, DPA, CMA, CDPA, RIPA		Ethical issues, Moral issues, Cultural issues, Environmental issues	
Digital Literacy	Use of technology Understanding of how technology works					
Careers	Software Engineer – Cyber Security – Multimedia programmer – Systems analyst – Games developer					