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Principal: Mrs C Stanyer

Subject: GCSE Computer Science Year 11 Curriculum Map 2024 - 25				
Week Commencing	Topic (including links to additional resources)	Assessment Window		
Staff INSET 02/09 Students Return 03/09	1.3.1 Wired and wireless networks types of networks: (LAN, WAN) factors that affect the performance of networks the different roles of computers in a client-server and a peer-to-peer network the hardware needed to connect stand-alone computers into a Local Area Network: (wireless access points, routers/switches, NIC (Network Interface Controller/Card), transmission media) the internet as a worldwide collection of computer networks: (DNS (Domain Name Server), hosting / the cloud, the concept of virtual networks).			
09/09/2024				
16/09/2024	Python programming – revision of basic programming			
23/09/2024		Knowledge check		
30/09/2024	1.3.2. Protocols and layers star and mesh network topologies Wifi (frequency and channels / encryption / Ethernet) the uses of IP addressing and MAC addressing protocols including: TCP/IP, HTTP, HTTPS, FTP, POP, IMAP, SMTP the concept of layers			
07/10/2024				
14/10/2024				
21/10/2024	Python programming – focus on arrays and subroutines	Knowledge check		
October Half Term				
04/11/2024	Forms of attack: (Malware, Social engineering, e.g. phishing, people as the 'weak point', Brute-force attacks, Denial of service attacks, Data interception and theft, the concept of SQL injection) Identifying and preventing vulnerabilities (Penetration testing, Antimalware software, Firewalls, User access level, Passwords, Encryption. Physical security)			
11/11/2024		OAT Eng / Maths / Sci		
18/11/2024	Exam Preparation and revision, exam technique practice including application / past paper questions / programming questions	Achievement Round 1		

Ormiston Meridian Academy is committed to safeguarding and promoting the welfare of children and young people and expects all staff and volunteers to share this commitment.



















25/11/2024	Exam Preparation and revision, exam technique practice including application / past paper questions / programming questions	Achievement Round 1
02/12/2024	SQL and database records the use of records to store data SQL (SELECT, FROM, WHERE)	
09/12/2024	2.3 Producing robust programs defensive design considerations (input sanitisation/validation, planning for contingencies, anticipating misuse, authentication) maintainability (comments, indentation) the purpose of testing types of testing: (iterative, final/terminal) how to identify syntax and logic errors selecting and using suitable test data (normal, erroneous and borderline.	
16/12/2024	2.4 Boolean logic AND / OR / NOT Logic gates Truth tables	Knowledge check
Christmas Break		
06/01/2025		
13/01/2025	Python programming Adaptively taught delivery of programming skills and practical programming challenges using IDLE environment.	
20/01/2025		
27/01/2025	Exam Preparation and revision, exam technique practice including application / past paper questions / programming questions	Achievement Round 2
03/02/2025	Exam Preparation and revision, exam technique practice including application / past paper questions / programming questions	Achievement Round 2
10/02/2025	Exam Preparation and revision, exam technique practice including application / past paper questions / programming questions	Achievement Round 2
February Half Term		
24/02/2025	Programming languages and IDEs characteristics and purpose of different levels of programming	
03/03/2025	 language, including low level languages the purpose of translators the characteristics of an assembler, a compiler and an interpreter common tools and facilities available in an integrated development environment (IDE): (editors, error diagnostics, run-time environment, translators). 	
10/03/2025	Exam Preparation and revision, exam technique practice including application / past paper questions / programming questions	Knowledge check
17/03/2025	Exam Preparation and revision, exam technique practice including application / past paper questions / programming questions	

Exam Preparation and revision, exam technique practice including application / past paper questions / programming questions 31/03/2025			
application / past paper questions / programming questions 07/04/2025	24/03/2023	Exam Preparation and revision, exam technique practice including application / past paper questions / programming questions	
application / past paper questions / programming questions Easter Break 28/04/2025	31/03/2025	Exam Preparation and revision, exam technique practice including application / past paper questions / programming questions	
28/04/2025	07/04/2025		
application / past paper questions / programming questions 05/05/25 12/05/2025 GCSE 19/05/2025 GCSE May Half Term 02/06/2025 GCSE 16/06/2025 GCSE 23/06/2025	Easter Break		
12/05/2025 GCSE 19/05/2025 GCSE May Half Term 02/06/2025 GCSE 09/06/2025 GCSE 16/06/2025 GCSE	28/04/2025	Exam Preparation and revision, exam technique practice including application / past paper questions / programming questions	
19/05/2025 GCSE May Half Term 02/06/2025 GCSE 09/06/2025 GCSE 16/06/2025 GCSE	05/05/25		GCSE
May Half Term 02/06/2025 GCSE 09/06/2025 GCSE 16/06/2025 GCSE 23/06/2025	12/05/2025		GCSE
02/06/2025 GCSE 09/06/2025 GCSE 16/06/2025 GCSE	19/05/2025		GCSE
09/06/2025 16/06/2025 GCSE 23/06/2025	May Half Term		
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	16/06/2025		GCSE
30/06/2025	23/06/2025		
	30/06/2025		
07/07/2025	07/07/2025		
14/07/2025	14/07/2025		
21/07/2025	21/07/2025		