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## Subject: GCSE Computer Science (OCR) Year 11 Curriculum Map 2025 - 26

Week Commencing	Topic (including links to additional resources)	Assessment Window
Staff INSET 02/09 Students Return 02/09	<b>1.3.1 Wired and wireless networks</b> <ul style="list-style-type: none"><li>types of networks: (LAN, WAN)</li><li>factors that affect the performance of networks</li><li>the different roles of computers in a client-server and a peer-to-peer network</li><li>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)</li><li>the internet as a worldwide collection of computer networks: (DNS (Domain Name Server), hosting / the cloud, the concept of virtual networks).</li><li>star and mesh network topologies</li></ul>	
08/09/2025		
15/09/2025		
22/09/2025		Learning checkpoint – wired and wireless networks
29/09/2025	<b>Python programming.</b> Adaptive content focusing on prior identified weaknesses and linked to exam questions.	
06/10/2025		
13/10/2025	<b>1.3.2. Protocols and layers</b> <ul style="list-style-type: none"><li>Wired and wireless networks</li><li>Encryption</li><li>IP and MAC addressing</li><li>Standards and common protocols (TCP/IP, HTTP, HTTPS, FTP, POP, IMAP, SMTP)</li><li>Layers</li></ul>	
20/10/2025		Learning checkpoint – networks 2
October Half Term		
03/11/2025	Exam Preparation and revision, exam technique practice including application / past paper questions / programming questions	
10/11/2025	<b>2.3 Producing robust programs in Python</b> <ul style="list-style-type: none"><li>defensive design considerations (input sanitisation/validation, planning for contingencies, anticipating misuse, authentication)</li><li>maintainability (comments, indentation)</li><li>the purpose of testing</li><li>types of testing: (iterative, final/terminal)</li><li>how to identify syntax and logic errors</li><li>selecting and using suitable test data (normal, erroneous and borderline).</li></ul>	AR1
17/11/2025		AR1
24/11/2025		

01/12/2025	<b>2.1.2 Designing, creating and refining algorithms</b> <ul style="list-style-type: none"> <li>• Input/output/processes</li> <li>• Structure diagrams</li> <li>• Pseudocode</li> <li>• Flowcharts</li> <li>• Trace tables</li> </ul>	
08/12/2025		
15/12/2025		
Christmas Break		
06/01/2026	Exam Preparation and revision, exam technique practice including application / past paper questions / programming questions	
12/01/2026	<b>1.6. Systems software</b>	<b>AR2</b>
19/01/2026	<ul style="list-style-type: none"> <li>• The purpose of Operating Systems</li> <li>• Utility software (encryption / defragmentation / compression)</li> </ul>	<b>AR2</b>
26/01/2026		<b>AR2</b>
<b>02/02/2026</b>	<b>Python programming.</b> Adaptive content focusing on prior identified weaknesses and linked to exam questions.	
09/02/2026		
February Half Term		
23/02/2026	<b>2.5 Programming languages and IDEs</b>	
02/03/2026	<ul style="list-style-type: none"> <li>• characteristics and purpose of different levels of programming language, including low level languages</li> <li>• the purpose of translators</li> <li>• the characteristics of an assembler, a compiler and an interpreter</li> </ul> <p>common tools and facilities available in an integrated development environment (IDE): (editors, error diagnostics, run-time environment, translators).</p>	Learning checkpoint – Programming languages and IDEs
09/03/2026		
16/03/2026	<b>Python programming.</b> Adaptive content focusing on prior identified weaknesses and linked to exam questions.	
23/03/2026		Learning checkpoint – Python programming
Easter Break		
13/04/2026	Exam Preparation and revision, exam technique practice including application / past paper questions / programming questions	
20/04/2026	Preparation and revision, exam technique practice including application / past paper questions / programming questions	
27/04/2026	Preparation and revision, exam technique practice including application / past paper questions / programming questions	

04/05/2026	Preparation and revision, exam technique practice including application / past paper questions / programming questions	GCSEs
11/05/2026	<b>GCSE Paper 1 Wednesday 13<sup>th</sup> May, PM</b>	GCSEs
18/05/2026	<b>GCSE Paper 2 Tuesday 19<sup>th</sup> May, PM</b>	GCSE
May Half Term		