

OCR GCSE

J275 Specification map

Notes:

Unit 1 is a free half-unit and unit 7 is designed to cover the theoretical elements of programming

		Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7
2.1.1	Fundamentals of computer systems							
2.1.1 a, b, c	Computer systems in the modern world	✓						
2.1.1 d	Professional standards	✓						
2.1.1 e	Ethical, environmental and legal considerations	✓						
2.1.2	Computing hardware							
2.1.2 a, b, c	The CPU		✓					
2.1.2 g, h, i, j, k, l	Memory		✓					
2.1.2 s, t, u, m, n	Secondary storage devices		✓					
2.1.2 o, p, q, r	Input and output devices		✓					
2.1.2 d, e, f	Binary logic		✓					
2.1.3	Software							
2.1.3 a, c	Types of software			✓				
2.1.3 a, b	Functions of the operating systems			✓				
2.1.4	Representation of data							
2.1.4 a, b	Introduction to binary				✓			
2.1.4 c, d, e, f, g, h, i, j	Number				✓			
2.1.4 k, l, m, n, o	Images and sound				✓			
2.1.4 p, q	Machine code instructions				✓			
2.1.5	Databases							
2.1.5 a, b, i	Tables, records and fields					✓		
2.1.5 e, h	Entities and relationships					✓		
2.1.5 f, g	Queries and SQL					✓		
2.1.5 a, b	Program-data independence					✓		
2.1.5 c, d	The DBMS					✓		
2.1.6	Communications and networking							
2.1.6 c, i, j, k, f	The Internet and Client-Server networks						✓	
2.1.6 a, b, d, e	Network topologies						✓	
2.1.6 g, h	Network security						✓	
2.1.6 m, n, o	Compression						✓	
2.1.6 l	HTML and webpage development						✓	
2.1.7	Programming							
2.1.7 a, b	Algorithms, flow diagrams and pseudocode							✓
2.1.7 g, h, i	Program control flow							✓
2.1.7 j, k, l, m, n, o	Handling data in algorithms							✓
2.1.7 d, e, f	Programming languages							✓
2.1.7 p, q, r	Testing, errors and debugging tools							✓