AQA AS LEVEL
7516 Specification map

AS level	A level		Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
3.1		**Fundamentals of progamming**						
3.1.1	4.1.1	Programming	✓					
3.1.2	4.1.2	Procedural-oriented programming		✓				
3.2		**Fundamentals of data structure**						
3.2.1	4.2.1	Data structures and abstract data types	✓					
3.3		**Systematic approach to problem solving**						
3.3.1	4.3.1	Aspects of software development	✓	✓				
3.4		**Theory of computation**						
3.4.1	4.4.1	Abstraction and automation		✓				
3.4.2	4.4.2	Finite state machines (FSMs)		✓				
3.5		**Fundamentals of data representation**						
3.5.1	4.5.1	Number systems			✓			
3.5.2	4.5.2	Number bases			✓			
3.5.3	4.5.3	Units of information			✓			
3.5.4	4.5.4	Binary number system			✓			
3.5.5	4.5.5	Information coding systems			✓			
3.5.6	4.5.6	Representing images, sound and other data			✓			
3.6		**Fundamentals of computer systems**						
3.6.1	4.6.1	Hardware and software				✓		
3.6.2	4.6.2	Classification of programming languages				✓		
3.6.3	4.6.3	Types of program translator				✓		
3.6.4	4.6.4	Logic gates				✓		
3.6.5	4.6.5	Boolean algebra				✓		
3.7		**Fundamentals of computer organisation and architecture**						
3.7.1	4.7.1	Internal hardware components of a computer					✓	
3.7.2	4.7.2	The stored program concept					✓	
3.7.3	4.7.3	Structure and role of the processor and its components					✓	
3.7.4	4.7.4	External hardware devices					✓	
3.8		**Consequences of uses of computing**						
3.8.1	4.8.1	Individual, social, legal and cultural issues						✓
3.9		**Fundamentals of communication and networking**						
3.9.1	4.9.1	Communication						✓
3.9.2	4.9.2	Networking						✓