



YEAR 13 CURRICULUM SUMMARY



When?		Knowledge	Knowledge	Assessment
AUTUMN Term — FIRST Half	(7 Weeks)	 a) Data Protection Act b) Computer Misuse Act c) Copyright and Patents Act d) Regulation of Investigatory Powers Act 	These include but are not limited to: a) Computers in the workforce b) Automated decision making c) Artificial intelligence d) Environmental effects e) Censorship and the Internet	
	(2	d) Object-oriented languages (using Java/C++ style pseudocode) with an understanding of classes, objects, methods, attributes, inheritance, encapsulation and polymorphism	Thinking abstractly (introduced) d) Object-oriented languages (using Java/C++ style pseudocode) with an understanding of classes, objects, methods, attributes, inheritance, encapsulation and polymorphism	Practical OO pseudocode exercises

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When?	Knowledge	Knowledge	Assessment
AUTUMN Term – SECOND Half	 a) The differences between and uses of CISC and RISC processors b) GPUs and their uses (including those not related to graphics) c) Multicore and Parallel systems c) The use of pipelining in a processor to improve efficiency a) The nature of applications b) Utilities c) Open source vs Closed source1.2.1 b) Memory Management (paging, segmentation and virtual memory) 	e) Use of abstraction f) Candidates should apply their knowledge of	Programming exercises complex enough to demonstrate and utilise computational methods



Who	en?	Knowledge	Knowledge	Assessment
SPRING Term – FIRST Half	ks)	c) Interrupts d) Scheduling: Round Robin, First come first served, Multi- level feedback queues, shortest job first and shortest remaining time h) Virtual Machines		
	(6 Weeks)	 d) Translators: Interpreters, compilers and assemblers e) Stages of compilation (Lexical Analysis, Syntax Analysis, Code Generation and Optimisation) f) Linkers and loaders 		



When?	Knowledge	Knowledge	Assessment
	Analysis		
	Problem identification		
OND	Stakeholders		
- SEC	Research the problem		
erm - Half	Specify the proposed solution		
SPRING Term — SECOND Half	Design		
S	Decompose the problem		
	Describe the solution		
	Describe the approach to testing		





	Knowledge		Assessment
When?		Knowledge	
SUMMER Term – FIRST Half	Developing (and testing) the solution		
	Iterative development process		
	Development Testing		
	Post development testing		
	Evaluation		
	Success of solution		
	Describe the final product		
	Maintenance and development.		