

AQA Computer Science

AQA EXAMINATION BOARD: AS {7516} and A LEVEL {7517} First teaching from September 2015

Exam Board	Unit	Overview	Assessment	Indicative texts	Weight	Support available
AQA COMPUTER SCIENCE 7517 FULLY ACCREDITED	PAPER 1 (7517/1A/1B/1C/1D/1E) Option A: C# {7517A 2610} Option B: Java {7517B 2610} Option C: Pascal/Delphi {7517C 2610} Option D: Python {7517D 2610}	Tests your ability to program. Focus on theoretical knowledge and the skills required to develop a working program. Short answer questions. Write/adapt and extend a given program.	<ul style="list-style-type: none"> On-screen exam: 2 hours 30 minutes 	Section 1 – Programming Theory <ul style="list-style-type: none"> Fundamentals of programming. Data structures. Theory of computation. Section 2 - Programming <ul style="list-style-type: none"> Programming practice. Systematic approach to problem solving.	40% 100 marks	<ul style="list-style-type: none"> Teaching and learning support, including: suggested activities, lesson resources.
	PAPER 2 (7517/2)	Computational Theory Short answer question paper and extended answer question paper.	<ul style="list-style-type: none"> Written paper 2 hours 30mins 	Topics <ul style="list-style-type: none"> Data representation. Fundamentals of functional programming. Fundamentals of computer systems. Computer organization and architecture. Communication and Networking. Fundamentals of databases. 	40% 100 marks	<ul style="list-style-type: none"> Sample assessment materials available. Teaching and learning support, including: suggested activities, lesson resources.
	Practical Project- NEA (7517/C)	Non-exam assessment Use a systematic approach to solve a practical problem.	Teacher assessed formal project document.	Project includes <ul style="list-style-type: none"> Client and problem analysis. System Design. Technical Solution (program it). Testing (Alpha and Beta). Evaluation. 	20% 75 marks	<ul style="list-style-type: none"> Sample assessment materials available. Teaching and learning support, including: suggested activities, lesson resources.