A-Level Computer Science: OCR (H446)

Curriculum and Assessment Overview

Content Overview	Assessment Overview	
• The characteristics of contemporary processors, input, output and storage devices • Software and software development • Exchanging data • Data types, data structures and algorithms • Legal, moral, cultural and ethical issues • Elements of computational thinking • Problem solving and programming • Algorithms to solve problems and standard algorithms *The learner will choose a computing problem to work through according to the guidance in the specification.* • Analysis of the problem • Design of the solution • Developing the solution • Evaluation	Computer systems (01) 140 marks 2 hours and 30 minutes written paper (no calculators allowed)	**40%** of total A level
	Algorithms and programming (02*) 140 marks 2 hours and 30 minutes written paper (no calculators allowed)	**40%** of total A level
	Programming project 03* – Repository or 04* – Postal or 80 – Carry forward (2018 onwards)* 70 marks Non-exam assessment	**20%** of total A level

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Curriculum Delivery Plan

Year 12 (AS)

Term 1	Term 2	Term 3
1st Half Term SLR 3 Input, output and storage SLR 19 Thinking ahead SLR 1 Structure and function of the processor SLR 2 Types of processor SLR 23 Programming techniques **2nd Half Term** SLR 4 Operating systems SLR 21 Thinking logically SLR 8 Introduction to programming SLR 18 Thinking abstractly SLR 20 Thinking procedurally SLR 5 Application generation	**1st Half Term** SLR 13 Data types SLR 14 Data structures SLR 6 Software development **2nd Half Term** SLR 15 Boolean algebra SLR 8 Introduction to programming	**1st Half Term** SLR 25 Algorithms SLR 11 Networks SLR10 Databases **2nd Half Term** SLR 12 Web technologies SLR 16 Computer-related legislation SLR 17 Ethical, moral and cultural issues What makes a computer

Year 13 (A2)

Term 1	Term 2	Term 3
1st Half Term SLR 13 RECAP + Year 13 SLR 2 RECAP SLR 3 RECAP SLR 15 RECAP + Year 13 SLR 25 RECAP SLR 7 OO Project Support **2nd Half Term** SLR 26 Algorithms SLR 10 RECAP + Year 13 SLR 22 Thinking concurrently SLR 24 Computational methods SLR12 RECAP + Year 1	**1st Half Term** SLR 4 RECAP + Year 13 SLR 9 Compression, encryption and hashing Project Support **2nd Half Term** SLR 24 Computational methods SLR5 – Application generation Project Support	**1st Half Term** REVISION **2nd Half Term** REVISION