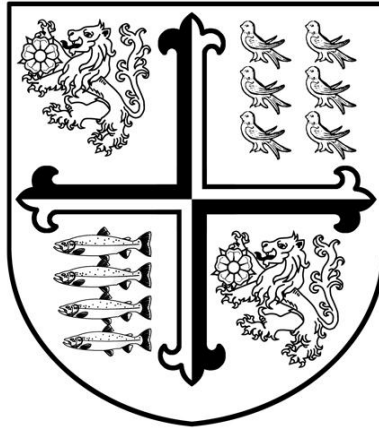




A Level Computer Science Exam Preparation

Exam Board: OCR

Specification: H446

[Cambridge OCR Level 3 Advanced GCE in Computer Science H446 Specification](#)

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Y13 Plan Strand 1

	Week 1-5	Week 6-12	Week 13-15	Week 16-30
Topic	2.3.1 Algorithms (continued from Year 13)	1.4.3 Boolean Algebra	Coursework	Revision
Learning Objectives	To learn about key algorithms including how to program these.	To learn about Boolean algebra, Karnaugh maps. Logic diagrams.	Completing the Design & Development & Evaluation sections of the NEA under supervised conditions.	Review & consolidate course contents.
Knowledge/skills to be gained	The ability to understand the theory and methodology behind key searching and sorting algorithms. The ability to understand the theory and methodology behind key path-finding algorithms. How to compare algorithmic efficiency using Big O notation.	Ability to apply key rules of Boolean algebra. Ability to create Karnaugh maps. Ability to build and analyse logic diagrams.	Ability to design and code a solution to a problem following an agile software development lifecycle methodology.	
Assessment	Summative assessment using past papers. EAD 21/08	Summative assessment using past papers. EAD 09/11	NEA	
Revision	Algorithms	1.4.3 Boolean Algebra		
Link with prior/subsequent learning	Builds upon knowledge of programming and data structures.	Builds upon knowledge of Boolean algebra from KS4.	Links to programming and programming theory from Y12.	.

Y13 Strand 2

	Week 1-15	Week 17-21	Week 23-31
Topic	Exchanging Data (continued from Y12)	1.5 - Ethical, Legal, Cultural and Environmental Impact	Revision
Learning Objectives	To learn about networking. To gain skills in web-development technologies.	Familiarity with the ethical etc impact of computing.	Review & consolidate course contents.
Knowledge/skills to be gained	Understanding of the key concepts of networking. Understanding of the key concepts of web development technologies. The ability to code using HTML, CSS and JavaScript.	Impacts of digital technology on wider society. Understanding of key computer-related legislation. Knowledge of different modes of connection and key networking protocols.	
Assessment	Summative assessment using past papers. EAD 30/11	Summative assessment using past papers. EAD 01/02	
Revision	Exchanging Data	Ethical, Legal, Cultural and Environmental Impact	
Link with prior/subsequent learning	Builds upon networking in KS4.	Builds upon KS4 unit 1.5.	

Online Revision Resources (all units):

- Ada Computer Science - <https://adacomputerscience.org/>
- Seneca - <https://senecalearning.com/en-GB/>
- W3 Schools C# <https://www.w3schools.com/cs/index.php>
- Time2Code C# <https://time2code.today/csharp-course>