

Carmel College Curriculum Implementation – KS5 Long term plan

Subject: GCE A-Level Computer Science (H446)

	Year 12		Year 13	
Autumn half term 1 Sequential knowledge and skills	Component 01: Computer Systems – Structure of Processor	Component 02: Algorithms and Programming – Computational Thinking	Component 01: Computer Systems – Data types and structures.	Component 03: Programming Project – Design and Implementation of the solution
Assessment Content and methods used to judge learning	Past Paper Questions appropriate to the sections of the unit studied so far.		Past Paper Questions suitable for the unit (including revision).	Programming Project Submission of Analysis and Design
Autumn half term 2 Sequential knowledge and skills	Component 01: Computer Systems – Software and Software development	Component 02: Algorithms and Programming – Programming techniques.	Component 01: Computer Systems – Preparation for the AL Mock Exam.	Component 03: Programming Project – Implementing the design of the solution
Assessment Content and methods used to judge learning	Past Paper Questions appropriate to the sections of the unit studied so far.		Past Paper Questions suitable for the unit (including revision).	Programming Project Submission of Implementation and Testing
Spring half term 3 Sequential knowledge and skills	Component 01: Computer Systems – Software and Software development.	Component 02: Algorithms and Programming – Computational methods and Problem solving.	Component 01: Computer Systems – Legal, Moral and Ethical issues.	Component 03: Programming Project – Testing and Evaluating the solution
Assessment Content and methods used to judge learning	Past Paper Questions appropriate to the sections of the unit studied so far.		Past Paper Questions suitable for the unit (including revision).	Programming Project Final Submission including Evaluation
Spring half term 4 Sequential knowledge and skills	Component 01: Computer Systems – Exchanging data, inc. databases	Component 02: Algorithms and Programming – Standard algorithms and comparison methods.	Component 01: Computer Systems – Revision and Exam Technique	Component 02: Algorithms and Programming – Revision and exam technique.
Assessment Content and methods used to judge learning	Past Paper Questions appropriate to the sections of the unit studied so far.		Past Paper Questions suitable for the unit (including revision).	
Summer half term 5 Sequential knowledge and skills	Component 01: Computer Systems – Exchanging data, inc. Networks and Web.	Component 02: Algorithms and Programming – Standard algorithms and programming.	Component 01: Computer Systems – Revision and Exam Technique	Component 02: Algorithms and Programming – Preparation for the final examination.
Assessment Content and methods used to judge learning	Past Paper Questions appropriate to the sections of the unit studied so far.		Past Paper Questions suitable for the unit (including revision).	
Summer half term 6 Sequential knowledge and skills	Component 01: Computer Systems – Exchanging data, inc. Networks and Web.	Component 03: Programming Project – Analysis of the problem and Design	Revision of Component 01 and Component 02 until the examinations are complete.	

Assessment Content and methods used to judge learning	End of Year Examination	Final External Examination
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