## **Programme of study for Year 13 Computer Science**

Autumn (1st term)	Autumn (2 <sup>nd</sup> term)	Spring (1st term)	Spring (2 <sup>nd</sup> Term)	Summer (1st term)	Summer (2 <sup>nd</sup> term)
Topic	Topic	Topic	Topic	Topic	Topic
Component 1 Unit 1:	Component 1:	Component 1:	Component 1:	Component 1:	Sign off
1.2.1 Systems Software (Part	1.3.4 Web Technologies	1.2.1 Systems software (fgh)	1.4.3 Boolean algebra	EXAM	
abcde)	Component 2:	1.2.2 Applications General			
1.3.3 Networks	2.3.1 Standard Algorithms:	Part (a-f)	Component 2:	Component 2:	
Component 2:	Merge and Quick sort	1.4.1DataTypes	Revision	EXAM	
2.3.1 Algorithms: Analysis,	Graph traversal algorithms,	1.2.4 (Part c) LMC	2.2.2Computational		
Big (0) notation, Linear	2.3.1 Optimisation	Component 2:	Methods(f)		
search, Binary search.	Algorithms			Skills:	
Bubble & Insertion sort	Component 3: (NEA)	Component 3: (NEA)	Skills:	Research and responsibility	
Component 3: (NEA)	Project Implementation and	Project Testing and	Study skills	for self study	
Project analysis-	Testing	Evaluation			
Project Design	Skills:	Skills:			
Skills:	Time Management	Research and knowledge of			
Research, planning, time		Current Affairs. Logical			
management.		thinking			
End of term 1 evidence to cover:		End of term 2 evidence to cover:		End of year evidence to cover:	
Mini Revision Tests / Project		Mock exam			
Rationale for sequence:	Rationale for sequence:	Rationale for sequence:	Rationale for sequence:	Rationale for sequence:	Rationale for sequence:
Helping students	Better understanding of the	Boost to project progress	Simplifying complex boolean	Gearing up revision based	
understand the time	WWW & Internet	Doorse wadensteading of	logic statements. Looking at	on need	
complexity of algorithms	Understanding more	Deepen understanding of	common uses of		
they may produce and use	challenging standard	Binary for –ve numbers and	optimisation algorithms.		
in their project. New topic	algorithms. Progressing	fractional parts	Final project work		
networking	project.				
Home – Learning:	Home – Learning:	Home – Learning:	Home – Learning:	Home – Learning:	Home – Learning:
Related to topic covered or	Related to topic covered or	Related to topic covered or	Revision		
revision	revision	revision			
Project analysis-	Project Implementation and	Project work			

Reading / High Quality Text: Technical language using manuals	Reading / High Quality Text:  Technical language using manuals. News articles related to Legal moral ethical issues	Reading / High Quality Text:  Technical language using manuals. News articles related to Legal moral ethical issues	Reading / High Quality Text:	Reading / High Quality Text:	Reading / High Quality Text:
Numeracy: Order of Magnitude	Numeracy: Page ranking calculations	Numeracy:  Boolean expressions	Numeracy:	Numeracy:	Numeracy:

Enrichment / opportunities to develop cultural capital (including careers, WRL and SMSC):

Consider taking a MOOC to help with Uni Course at the end of the year.