

St John's Curriculum Overview – Year 13

Subject title	Computer Science
Setting arrangements	No setting
Time allowance each fortnight	9 hours

Introduction

Students work towards two external exams in Computer Science:

- Paper 1 - Computer Systems
- Paper 2 – Algorithms & Programming

Students are also required to complete a Non-Examined Assessment, consisting of a programming project in year 12.

Topics, Skills and Assessment covered during the course

	Topics covered	Skills developed	Assessment
Term 1	1.3 Exchanging Data	Databases	End of unit tests will be used to monitor progress and understanding NEA is only assessed upon completion
	NEA Problem Design & development	Iterative development process & testing	
Term 2	1.3 Exchanging Data	Compression, Encryption, Hashing	End of unit tests will be used to monitor progress and understanding NEA is only assessed upon completion
	NEA Problem Development	Iterative development process & testing	
Term 3	NEA Problem Testing & Evaluation	Evaluative testing, analysis of success criteria, description of solution & maintenance requirements	NEA is only assessed upon completion
Term 4	Detailed Topic Review (1.1, 1.2, 1.5, 2.1, 2.2)	Extend and reinforce knowledge of: processors, IO & Storage, Software & Software Development, LMCE, Computational Thinking & Programming	Mini end of unit assessments using past exam paper questions & vocabulary quizzes Year 13 Mocks to verify retention & identify weaknesses.
Term 5	Detailed Topic review (1.3, 1.4, 2.2, 2.3)	Extend and reinforce knowledge of: Databases, Compression, Encryption & Hashing, Data Types, Structures, Algorithms & Programming	Mini end of unit assessments using past exam paper questions & vocabulary quizzes
Term 6	n/a	n/a	A-Level Exams

Resources Recommended for Revision and where they are available:

- Hodder Education Computer Science for A Level (OCR) Text Book – available to borrow from the library
- PG Online OCR AS and A Level Computer Science Text Book – available to buy online
- Craig n Dave Video lessons – available online at <https://www.youtube.com/craigndave>

Homework

- Students will receive weekly homeworks to introduce/reinforce topics covered in lessons
- Students will also be expected to revise for the various assessments, as well as practise vocabulary & their programming skills
- Students will be expected to allocate a couple of hours each week during terms 2 and 3 to work on their NEA

Additional support and help for the course

- After school & lunchtime sessions will be put on, as required in year 13, in the build-up to exams

Extra-Curricular

- N/A