



# St John's Curriculum Overview – Year 13



<b>Subject title</b>	<b>Computer Science</b>
Setting arrangements	No setting
Time allowance each fortnight	9 hours

<b>Introduction</b>
Students work towards two external exams in Computer Science: <ul style="list-style-type: none"> <li>• Paper 1 - Computer Systems</li> <li>• Paper 2 – Algorithms &amp; Programming</li> </ul>
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
<b>Term 1</b>	<b>1.3 Exchanging Data</b>	Databases	End of unit tests will be used to monitor progress and understanding NEA is only assessed upon completion
	<b>NEA Problem Design &amp; development</b>	Iterative development process & testing	
<b>Term 2</b>	<b>1.3 Exchanging Data</b>	Compression, Encryption, Hashing	End of unit tests will be used to monitor progress and understanding NEA is only assessed upon completion
	<b>NEA Problem Development</b>	Iterative development process & testing	
<b>Term 3</b>	<b>NEA Problem Testing &amp; Evaluation</b>	Evaluative testing, analysis of success criteria, description of solution & maintenance requirements	NEA is only assessed upon completion
<b>Term 4</b>	<b>Detailed Topic Review (1.1, 1.2, 1.5, 2.1, 2.2)</b>	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.
<b>Term 5</b>	<b>Detailed Topic review (1.3, 1.4, 2.2, 2.3)</b>	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
<b>Term 6</b>	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