



Archbishop Tenison's

CHURCH OF ENGLAND HIGH SCHOOL

COMPUTER SCIENCE



Computer Science

A Level Course Overview

- 2-year A Level course; OCR syllabus
- Suited to pupils who like solving problems and are mathematically / logically adept (entry requirement of Maths grade 6 or higher).
- There is a heavy emphasis on learning computer programming and the mathematical / logical skills used to express computational laws and processes.
- A Level Computer Science is key to further study and career opportunities in AI, Machine Learning, Web centric design, programming, networking.



How do we teach the subject?

- Pupils acquire knowledge mostly by applying that knowledge.
- By applying the knowledge pupils acquire programming, development and software use skills, and gain working knowledge of industry standard development frameworks. Previous frameworks and languages used by students include:-
 - PHP
 - Flask – with Python and MySQL
 - SQLite
 - Python and Pygame
 - HTML / CSS / Java Script





Assessment at a glance

Component	Assessment	Weighting
01 – Computer Systems	Written Exam – 2 hours 30 mins	40%
02 – Algorithms and Programming	Written Exam – 2 hours 30 mins	40%
03 – Programming Project	-	20%

- All exams are written – there are no digital exams.
- All students gain substantial amounts of practice at writing answers to examination questions during the two years.
- Programming Projects are developed through the final year and are submitted 6 weeks before the final exams – we expect a *top* grade from all students.



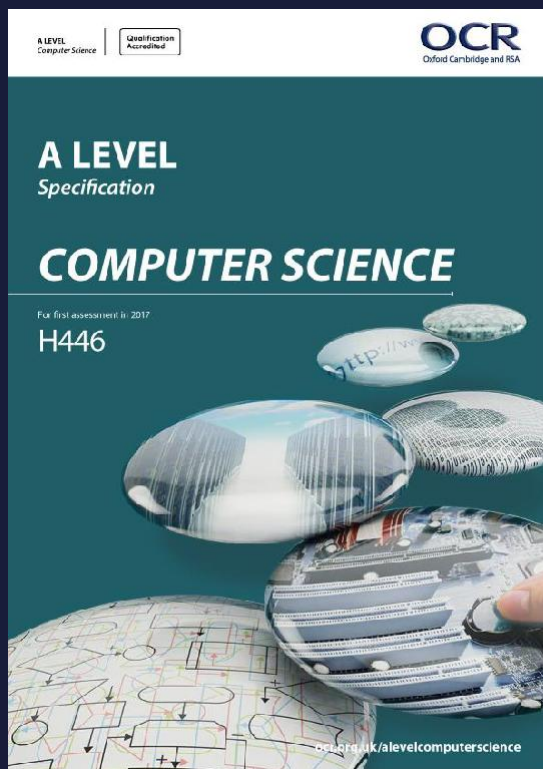
Successes and Opportunities

- Gaining valuable skills to build innovative, intellectually challenging and stimulating solutions.
- High grades are attained when students have not taken GCSE Computer Science; the core requirement is mathematical / logical ability.
- Very high acceptance rate for top-rated universities for computer science / mathematical / engineering courses.



Course Resources at a glance

OCR Syllabus code H446



Text book

ISBN13:- 9781910523056

