

EXCEPTIONAL

TEACHING

EXCEPTIONAL

EXPERIENCE

COMPUTER

SCIENCE



Launceston Sixth
Part of the Athena Learning Trust

Subject Information
For admissions in September

Computer Science

Exam Board : AQA

Specification Link: <https://www.aqa.org.uk/subjects/computer-science-and-it/asand-a-level/computer-science-7516-7517/specification-at-a-glance>

Course Structure:

- 10 Fundamentals of programming
- 11 Fundamentals of data structures
- 12 Fundamentals of algorithms
- 13 Theory of computation
- 14 Fundamentals of data representation
- 15 Fundamentals of computer systems
- 16 Fundamentals of computer organisation and architecture
- 17 Consequences of uses of computing
- 18 Fundamentals of communication and networking
- 19 Fundamentals of databases
- 20 Big Data
- 21 Fundamentals of functional programming
- 22 Systematic approach to problem solving
- 23 Non-exam assessment - the computing practical project

Entry Requirements: 5 GCSE(s) at 9-5 including English and Grade 6 in Maths and Sciences

Possible Progression Routes: The course could lead to numerous university courses in the computer science or science faculties. Also to careers and apprenticeships in the IT and communications industry.

Equipment required: Access to a computer with the appropriate software. Most software required is free to download. If there is any cost for software students may be eligible for support from the 16-19 bursary.

Supporting Subjects: Maths and Physics

Assessments: Paper 1 What's assessed: this paper tests a student's ability to program, as well as their theoretical knowledge of Computer Science from subject content 10-13 above and the skills required from section 22 above.

Assessed On-screen exam: 2 hours 30 minutes 40% of A-level

Questions: Students answer a series of short questions and write/adapt/ extend programs in an Electronic Answer Document provided by us. We will issue Preliminary Material, a Skeleton Program (available in each of the Programming Languages) and, where appropriate, test data, for use in the exam.

Paper 2: What's assessed: this paper tests a student's ability to answer questions from subject content 14-21 above.

Assessed On-screen exam: 2 hours 30 minutes 40% of A-level

Questions: Compulsory short-answer and extended-answer questions.

Non-Exam Assessment What's assessed: the non-exam assessment assesses student's ability to use the knowledge and skills gained through the course to solve or investigate a practical problem. Students will be expected to follow a systematic approach to problem solving, as shown in section 22 above.

Assessed 75 marks 20% of A-level

Subject contact: Mr Wayne Kettle
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How to Apply:

To apply to Launceston Sixth please complete our online application form: www.launcestoncollege.uk/sixth-form
Our admissions team will then be in contact to arrange a Sixth Form interview to discuss your options, your aspirations, and to provide advice and guidance on your next steps.

If you cannot access the website, or would like to submit a paper based application please email or call.

ldavey@launcestoncollege.uk

Further details about all of the courses we offer can be found on our website