



Additional Requirements

- Combined/Single Science: Grade 6
- Maths: Grade 6

Computer Science

Course Leader
Saul Roberts

Examination Board
OCR

Assessment
Written examinations
Programming project (NEA)

What you will study?

AS | A Level Computer Science is both a theoretical and practical subject where students will learn about the fundamentals of computational thinking, algorithms, programming and computer systems. An intensely creative subject combining both invention and excitement, enabling the learner to look at the natural world through a digital prism.

Students will develop an ability to apply the fundamental principles and concepts of computer science, including abstraction, decomposition, logic, algorithms and data representation

There is a strong emphasis on logical reasoning and problem solving and you will learn to use your mathematical skills and techniques to solve challenging problems.

“I learnt all about the internal components of the computer system, the CPU, memory, data representation, algorithms like pseudocode and flowcharts, Python programming with file handling using different IDLEs and Networking.”

Additional Requirements

Science and Math at Grade 6 and above

Future Pathways

Computer Science Degree or a HND in Computer Science. Employment or Apprenticeship opportunities in Software Development, Network Engineering, Database Development.

Extra-Curricular Opportunities & Equipment Required

Python Programming & Computer Theory
Laptop – 16GB RAM, AMD/Intel CPU (6 cores | X64)
GPU 6GB VRAM (iGPU will also be fine)