WORCESTER
SIXTH FORM COLLEGE

A LEVEL
COMPUTER SCIENCE

WHY CHOOSE COMPUTER SCIENCE?

Computer Science is a practical and yet intensely creative subject where learners can apply the academic principles learned in class to real world systems. Students will develop the skills to solve problems, design systems and understand the power and limits of human and machine intelligence.

This course provides an excellent grounding for students wanting to study Computer Science or other technical subjects at university.

It combines well with Maths or any of the three sciences.

RESOURCES AND FACILITIES

- Enthusiastic and highly experienced teachers
- Two teaching rooms equipped with modern hardware and software
- Dedicated study areas equipped with specialist hardware and software for Computer Science students for use outside of lessons.
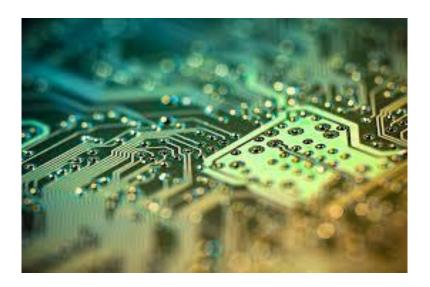
TEACHING AND LEARNING STYLE

A mix of practical and theory lessons.

Practical lessons including programming basics, creating software solutions and coursework.

Theory lessons include topics such as systems analysis, programming languages, computer hardware, networks and data transmission.
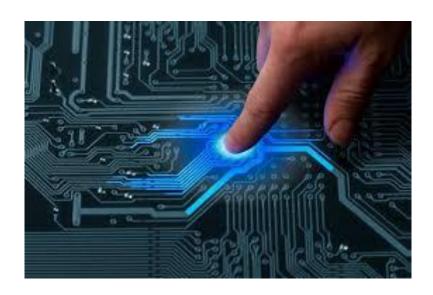
PROGRESSION OPPORTUNITIES

This course provides the perfect springboard for students looking at specialising in a computing-based career. Many of our students go on to higher education, studying for a degree in Computer Science or specialising in such fields as Software Engineering, Cyber Security or Games Development at University.

ASSESSMENT

There will be two equally weighted units assessed by two written papers of 2 hours and 30 minutes each as well as a project:

- Computer Systems (40%)

- Algorithms and Programming (40%)

- Programming Project (20%)

ENTRY AND SKILL REQUIREMENTS

What are the entry requirements for A Level Computer Science?

- A GCSE score of Higher 6 in Maths

- A GCSE score of 4 in English Language

- Computer Science GCSE score of 6 or evidence of programming experience

- 5 GCSE grade 5s or above

Other desirable subject combinations

- A level Maths

Skills and Attitudes Required for Success

- Experience of most common computer applications

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