Why choose OCR GCSE Computer Science?

• This course gives students a real, in-depth understanding of how computer technology

works. It will give them an insight into what goes on ‘behind the scenes’, including

computer programming, which many students find absorbing

• It’s a great way to develop critical thinking, analysis and problem-solving skills, which

can be transferred to further learning, the workplace and everyday life

• Students who want to go on to higher study and employment in the field of commercial

information technology will find it provides a superb stepping stone

Through this course students will:

• Develop their understanding of current and emerging technologies and how they work

• Look at the use of algorithms in computer programmes

• Become independent and discerning users of IT

• Acquire and apply creative and technical skills, knowledge and understanding of

Computing in a range of contexts

• Develop computer programmes to solve problems

• Evaluate the effectiveness of computer programmes/solutions and the impact of

computer technology in society

These skills will be the best preparation for learners who want to go on to study Computer

Science A Level and beyond. The qualification will also provide a good grounding for other

subject areas that require computational thinking and analytical skills.

Component 01 -

Computer systems

(1 hour 30 minutes

examination)

50%

J277/01: Computer systems This component will assess:

• 1.1 Systems architecture

• 1.2 Memory and storage

• 1.3 Computer networks, connections and protocols

• 1.4 Network security

• 1.5 Systems software

• 1.6 Ethical, legal, cultural and environmental impacts of digital

technology

Component 02

(1 hour 30 minutes

examination)

50%

J277/02: Computational thinking, algorithms and programming This

component will assess:

• 2.1 Algorithms

• 2.2 Programming fundamentals

• 2.3 Producing robust programs

• 2.4 Boolean logic

• 2.5 Programming languages and Integrated Development

Environments