



Co-op Academy
Priesthorpe

Key Stage 4
Information
Evening
2023

Computer Science

Links to key websites

Specification

<https://www.ocr.org.uk/qualifications/gcse/computer-science-j277-from-2020/>

Revision

<https://student.craigndave.org/>

Exam Component 1 = 50% of the final grade

Exam Component 2 = 50% of the final grade

Each exam is 1hr 30mins

No calculators are allowed in the exam.

In year 10 all students will be given access to online revision to support them.

All students can undertake revision via Seneca learning.

All work covered in lessons is uploaded to google classroom. This will be available for the duration of the course.

Overview of the papers

Component 1: Computer Systems

Introduces students to the central processing unit (CPU), computer memory and storage, wired and wireless networks, network topologies, system security and system software. It also looks at ethical, legal, cultural and environmental concerns associated with computer science.

Component 2: Computational thinking, algorithms and programming

Students apply knowledge and understanding gained in component 01. They develop skills and understanding in computational thinking: algorithms, programming techniques, producing robust programs, computational logic and translators.

Programming Project: Students will be given the opportunity to undertake a programming task(s) during their course of study which allows them to develop their skills to design, write, test and refine programs using a high-level programming language. Students will be assessed on these skills during the written examinations, in particular component 02 (section B). *This does not count toward the final grade, but is a requirement of the course.*

Year 10: Students will undertake multiple programming projects, increasing in difficulty and using high-level logic to provide solutions to problems.

They will study component 1-Computer Systems

Year 11

Students will study Component 2-Computational thinking, algorithms and programming. This will build on work undertaken in year 10.

From Easter in Yr 11 all lessons will be revising all topics and both components ready for the exams.