



FORT PITT
GRAMMAR SCHOOL

GCSE REVISION EVENING

Computer Science

Mr R Pitman

A **Beyond** ACADEMY
SCHOOLS TRUST

GCSE

- Key exam information
- Exam content information
- Revision resources
- Subject specific revision and exam technique
- Top tips for parents
- Top tips for students



Key Exam Information

- Paper 1: Computer Systems
 - Wednesday 15th May 2024 PM 1h 30 min
- Paper 2: Computational thinking, algorithms and programming
 - Tuesday 21st May 2024 PM 1h 30 min

Exam board



OCR GCSE Computer Science (J277)



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GCSE

Computer Science (9-1) - J277

Teaching from 2020

Specification at a glance

New to OCR

Planning and teaching

Assessment

Administration

Textbooks & endorsed resources



This is the new page for our **updated** GCSE (9-1) Computer Science qualification.

We have updated our GCSE following the outcomes of the [Ofqual consultation](#), ready for first teaching 2020. We have kept things simple by keeping many aspects the same but have taken the opportunity, based on teacher feedback, to make some improvements too, including extra guidance in our specification.

[Sign-up for email updates](#) to receive the latest information from us.

[Video summaries of J277 GCSE \(9-1\) Computer Science](#)

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

Revision resources

CGP

GCSE OCR Computer Science

For the Grade 9-1 Exams

Complete Revision & Practice

Everything you need to pass the exam

Includes Free Online Edition

CGP

GCSE OCR Computer Science

For the Grade 9-1 Course

The Revision Guide

CGP

GCSE OCR Computer Science

For the Grade 9-1 Course

Exam Practice Workbook

Includes Answers

BBC Bitesize

Revision resources sorted for 2019?

If not, check out CSUK's sister site "www.ReviseComputerScience.com"

RCS is the **COMPLETE** revision resource for your GCSE CS classes.

Your students will not only have access to detailed **videos lessons** and **interactive presentations** covering all aspects of the GCSE, but also **downloadable/printable notes**, **embedded and printable flashcards** and **automatically marked MCQs** with **detailed feedback for every answer**.

<p>6 Months: £3 for the first 10 students, then it's a 10% discount for each additional student account.</p>	<p>3 Months: £2.50 for the first 10 students, then it's a 5% discount for each additional student account.</p>	<p>1 Month: £2 per student.</p>
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43 Interactive Presentations

Over 500 Embedded & Printable Flashcards

Over 400 auto-marked MCQs with detailed feedback whether right or wrong

Prefer instead a one off purchase of **£12** question & answer **flashcards?**

512 Flash Cards
...for GCSE Computer Science

...you can purchase all **512** Flashcards, with a **site licence** at www.revisecomputerscience.com for a one off payment of just **£59.99** ...allowing you to print and share with your students year after year.

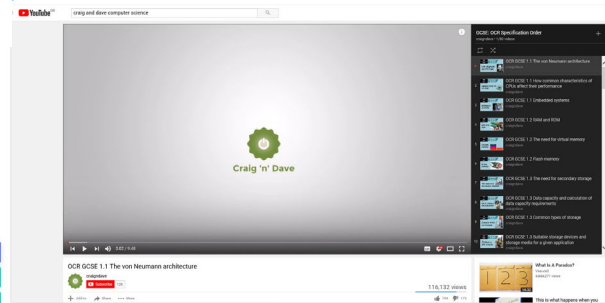
SMART
REVISE

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What is Smart Revise?



Computer Science specific revision and exam technique



Knowledge, Understanding and Skills	Process Goal	Performance Goal
Component 1 – Theory		
Systems Architecture	<p>Refer to the fetch-execute cycle when talking about components and performance</p> <p>Link the components together when describing how the processor works</p>	<p>Be able to explain clearly the function of all the components of the processor</p> <p>Be able to explain the fetch-execute cycle</p> <p>Be able to explain how to improve processor performance</p>
Memory and Storage	Use the standard list of features when comparing memory and storage technologies along with Number systems e.g. binary	Be able to recommend a storage device for a given situation
Network Technologies	Use the TCP/IP model when describing network technologies	Be able to explain how data is transmitted across a network

Computer Science specific revision and exam technique



Knowledge, Understanding and Skills	Process Goal	Performance Goal
System Security	<p>Use the standard list of security threats and solutions</p> <p>Link each threat to the correct solution(s) and combine security solution</p> <p>Start with people as the weak point in a system</p>	<p>Achieve top band in each essay answer</p> <p>Achieve full marks on explain questions</p>
Ethical, Legal, Cultural and Environmental Concerns	<p>Refer to all the points given in the question</p> <p>Write using a top-band structure</p> <p>Discuss issues from more than one point of view</p>	<p>Achieve top band in each essay answer</p>

Computer Science specific revision and exam technique

Knowledge, Understanding and Skills	Process Goal	Performance Goal
Component 2 – Programming		
Writing Algorithms	Break hard problems into smaller steps Know and use the standard patterns to solve problems	Be able to write an algorithm in pseudocode for an unseen problem
Robust Programming	Use your experience of coding to recall good coding practice Consider normal, boundary and erroneous test data	Be able to analyse an unseen piece of code

Top tips for parents



- Test key word knowledge from the 'Exam Essential Revision Notes' booklet
- Students write an answer- use the mark scheme to check their understanding
- Students complete a full paper under timed conditions
- Practice basic Maths skills- to support binary/hexadecimal/denary conversions
- Learn the processes to go through to explain sorts and searches
- Practice Pseudocode/Python coding exam questions

Top tips for students



If you are aiming for the top grades you need to know the material well enough have gone far enough beyond it that the GCSE exam becomes easy, so that you can achieve close to 100%.

Part of getting close to 100% is using strategies to make sure that you maximise your marks on each question, including:

- Getting top band on essays
- Getting full marks on 3-4 mark “explain” questions
- Avoiding “silly” mistakes