OCR Computer Science GCSE

Exam Structure

At Rossett we follow the **OCR GCSE J277 Computer Science Exam**. In this course students will sit **two written exams** (Computer Systems Paper 1 and Computational Thinking Algorithms and Programming Paper 2) which are **80 marks each** and worth **50% each – total 100%** of the GCSE. Each exam is **1hour and 30 minutes**. The exam specification can be found here: GCSE (9-1) Computer Science J277 Specification (ocr.org.uk)

Paper 1
- **1.1 : Systems Architecture**
- **1.2: Memory & 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**

Paper 2
- **2.1: Algorithms**
- **2.2 Programming Fundamentals**
- **2.3: Producing robust programs**
- **2.4: Boolean Logic**
- **2.5: Programming languages and Integrated Development Environments**

Command words document and video link

It is important to know what the questions is asking you to do. Make sure you know and understand the meaning of the key command words,

https://drive.google.com/file/d/1SFSh776TAoOx23VkgW-wU-YnQN3uUz84/view?usp=sharing

https://www.youtube.com/watch?embeds_referring_euri=https%3A%2F%2Fstudent.craigndave.org%2F&source_ve_path=Mjg2NjQsMTY0NTAz&feature=emb_share&v=skTUGgD2ThE

4. Exam Paper Practice

Once you have revised all of **Paper 1** or **Paper 2** content you now need to practice a full paper under timed conditions.

Exam Papers:

https://drive.google.com/drive/folders/1A-eGUDEzCqzcYXKnf-1xZIbp-xPzoUPg?usp=sharing

Essay Question Practice:

https://drive.google.com/drive/folders/1W5fPTU4IXo096KSZIcBDcHCYbMXQ_sul?usp=sharing

Paper 1 Summary Video
Paper 2 Summary Video

1. Memorise/Learn

Prioritise which topic you are going to revise/practice. Use your **Learning checklists** to help you.

Use the **knowledge organisers** or your **Revision Workbooks** to try to memorise this material. Use strategies like read, cover, write check, brain dumps and making flash cards/ mind maps as part of this process.

Knowledge organiser Paper 1:
https://drive.google.com/drive/folders/1QI1seD5GUE8dkpOqCitDLhWpVBqVpJX8?usp=sharing

Knowledge organiser Paper 2:
https://drive.google.com/drive/folders/1asMigT0fr2cV41rPedMBgJ6lyVe_HFZs?usp=sharing

Learning Check List:
https://docs.google.com/presentation/d/1s-UBNyLu4T_b3FC05DLO9F3O1E0YAKps/edit?usp=sharing&ouid=102409706715331036383&rtpof=true&sd=true

Revision Workbook Paper 1:
https://drive.google.com/drive/folders/11zyF97BbCAEIW0-jV52qM6AXDy22c3Af?usp=sharing

Revision Workbook Paper 2:
https://drive.google.com/drive/folders/16QkivDvizRCdkNf6ETnNVcMPJ0FnjHnR?usp=sharing

Revision Programming Practice Workbook:
https://drive.google.com/drive/folders/1weWCSXQII4DHIRU6h2BdvA-z3lW1vYoE?usp=sharing

2. Self Test

Self test using **low stakes testing** to see if you have retained this information. This could include using **flash cards** or practicing some **topic based exam questions and self assess** your answers using the mark scheme. Ada Computing Assignments will auto mark

Ada Computer Science Assignments online:
https://adacomputerscience.org/

Isaac Computing Booster Sessions online lessons:
https://isaaccomputerscience.org/events?examBoard=all&stage=all

Flash cards
Quizlet
https://quizlet.com/gb/911047236/ocr-gcse-computer-science-j277-paper-1-flash-cards/?x=1jqt

3. Explanations and support

These links will take you to videos from Craig and Dave. This will help you with the content if you are unsure of any of the ideas and also programming practice in Python online to match the GCSE form Teach Computer Science

GCSE Paper 1
OCR GCSE (J277) Videos – Craig 'n' Dave knowledge video index (craigndave.org)

GCSE Paper 2
OCR GCSE (J277) Videos – Craig 'n' Dave knowledge video index (craigndave.org)

Required Practical Programming:
GCSE Python | Python Beginners Course & Lessons (teachcomputerscience.com)