

GCE AS Examiners' Report

Electronics

AS

Summer 2025

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Introduction

Our Principal Examiners' report provides valuable feedback on the recent assessment series. It has been written by our Principal Examiners and Principal Moderators after the completion of marking and moderation, and details how candidates have performed in each component.

This report opens with a summary of candidates' performance, including the assessment objectives/skills/topics/themes being tested, and highlights the characteristics of successful performance and where performance could be improved. It then looks in detail at each unit, pinpointing aspects that proved challenging to some candidates and suggesting some reasons as to why that might be.¹

The information found in this report provides valuable insight for practitioners to support their teaching and learning activity. We would also encourage practitioners to share this document – in its entirety or in part – with their learners to help with exam preparation, to understand how to avoid pitfalls and to add to their revision toolbox.

Further support

Document	Description	Link
Professional Learning / CPD	Eduqas offers an extensive programme of online and face-to-face Professional Learning events. Access interactive feedback, review example candidate responses, gain practical ideas for the classroom and put questions to our dedicated team by registering for one of our events here.	https://www.eduqas.co.uk/home/professional-learning/
Past papers	Access the bank of past papers for this qualification, including the most recent assessments. Please note that we do not make past papers available on the public website until 12 months after the examination.	Portal by WJEC or on the Eduqas subject page
Grade boundary information	Grade boundaries are the minimum number of marks needed to achieve each grade. For linear specifications, a single grade is awarded for the subject, rather than for each component that contributes towards the overall grade. Grade boundaries are published on results day.	For unitised specifications click here: Results and Grade Boundaries and PRS (eduqas.co.uk)

¹ Please note that where overall performance on a question/question part was considered good, with no particular areas to highlight, these questions have not been included in the report.

Exam Results Analysis	Eduqas provides information to examination centres via the WJEC Portal. This is restricted to centre staff only. Access is granted to centre staff by the Examinations Officer at the centre.	Portal by WJEC
Classroom Resources	Access our extensive range of FREE classroom resources, including blended learning materials, exam walk-throughs and knowledge organisers to support teaching and learning.	https://resources.eduqas.co.uk/
Bank of Professional Learning materials	Access our bank of Professional Learning materials from previous events from our secure website and additional pre-recorded materials available in the public domain.	Portal by WJEC or on the Eduqas subject page.
Become an examiner with WJEC.	We are always looking to recruit new examiners or moderators. These opportunities can provide you with valuable insight into the assessment process, enhance your skill set, increase your understanding of your subject and inform your teaching.	Become an Examiner Eduqas

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Executive Summary

Candidates' performance in AS Electronics this year, was slightly lower than in previous years. The mean mark for Component 1 was slightly lower than 2024; the mean mark for Component 2 was very close to that of 2024.

Analysis of responses to questions showed the level of difficulty of the Component 1 exam to be similar to 2024. It should be noted however that the statistics are based on a relatively small number of entries for this qualification.

Component 1: Principles of Electronics (exam)

The Component 1 exam this year was similar to previous years in terms of content, with questions covering all topics of the specification. The majority of questions were attempted by candidates and some excellent marks were achieved across the range of topics.

In general questions requiring calculations were answered much more successfully than those requiring diagrams or written explanations. Topics answered well included Kirchhoff's laws, circuit calculations and timing calculations / diagrams.

Lower marks were achieved in Boolean algebra, Karnaugh maps and capacitors in series/parallel (where the formulae were frequently interchanged). A significant number of candidates omitted parts of questions asking for detail to be added to a diagram. Some candidates were unable to draw basic circuit symbols such as an LDR or gave a diagram of a full-wave rectifier instead of a half-wave. As seen previously, the two QER questions were those most often omitted by candidates and lowest marks were achieved these.

The AS Electronics eBook includes examples and exercises on all topics. This and other resources are available on the [AS/A level Electronics resources webpage](#).

Component 2: System Design and Realisation Tasks (NEA)

Samples presented for moderation were well organised. Work was accurately marked by most centres, with only a small number of centres' marks requiring adjustment. Some excellent reports were seen, scoring excellent marks in all 3 tasks.

In most centres, candidates produced a good range of projects. In a few centres, it appeared that candidates had been given a common design brief for Task 2. The specification requires candidates to select their own focus for tasks and this should produce a wide range of tasks within a centre.

Design specifications should include measurable parameters and numerical data, justified by relevant research. In the Evaluation section candidates must make a valid, critical and objective evaluation of the performance of the system, making clear comparison with the specification. A poor evaluation was often the consequence of having few measurable parameters in the specification.

Many reports included excellent screenshots and photographs. Several candidates presented screenshots of simulation results alongside photographs of the testing of the physical circuit, showing voltmeter readings and/or oscilloscope traces.

Clear annotation on scripts and mark schemes greatly aids the moderation process. A number of centres did not provide any annotation on mark schemes, making accurate feedback to centres difficult. From summer 2026 NEA samples must be uploaded electronically and will be moderated online. Clear annotation on mark schemes, showing the criteria achieved and marks awarded will be particularly helpful.

Supporting you

Useful contacts and links

Our friendly subject team is on hand to support you between 8.30am and 5.00pm, Monday to Friday.

Tel: **029 2240 4254**

Email: electronics@wjec.co.uk

Qualification webpage: [AS/A Level Electronics](#)

See other useful contacts here: [Useful Contacts | Eduqas](#)

CPD Training / Professional Learning

Access our popular, free online CPD/PL courses to receive exam feedback and put questions to our subject team, and attend one of our face-to-face events, focused on enhancing teaching and learning, providing practical classroom ideas and developing understanding of marking and assessment.

Please find details for all our courses here: <https://www.eduqas.co.uk/home/professional-learning/>

Regional Rep Team

Our regional team covers all areas of England and can provide face-to-face and online advice at a time which is convenient to you.

Get in contact today and discover how our team can support you and your students.

[Regional Support Team | Eduqas](#)

Eduqas Qualifications

We are one of the largest providers of qualifications for schools, academies, sixth form and further education colleges across England, offering valued qualifications to suit a range of abilities. Each and every one of our qualifications is carefully designed to engage students and to equip them for the next stage of their lives.

We support our education communities by providing trusted qualifications and specialist support, to allow our students the opportunity to reach their full potential.



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