

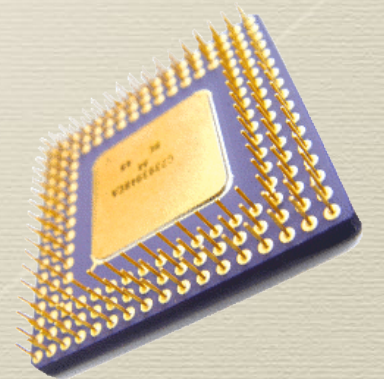
# GCSE - Electronics

Great Sankey High School



# What is Electronics GCSE?

- \* It is a full GCSE with levels 1 - 9.
- \* A two year course
- \* It consists of two exams (40% each) and coursework project (20%).



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# How its marked

Exam

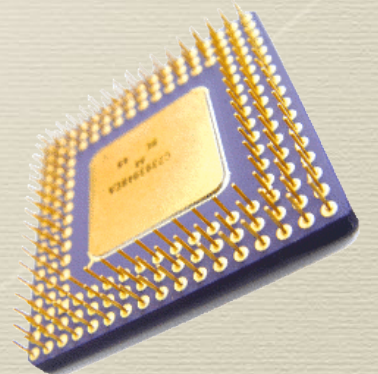
Unit 1 : 1:30 40%

**80%**

Unit 2 1:30 40%

Coursework

**20%**



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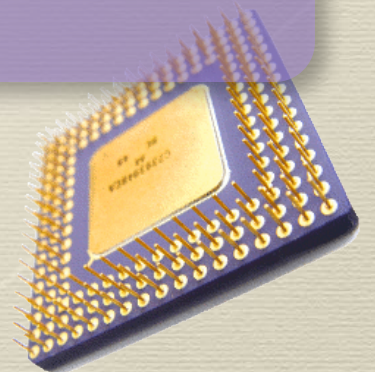


# Why Electronics?

- \* Electronics has a huge impact on our everyday lives in areas such as:
- \* Communication
- \* Travel
- \* Entertainment
- \* Information
- \* Logistics

What does this mean?

There are lots of opportunities for A levels, university and employment



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1 October 2012 Last updated at 00:28



## Warning over shortage of engineering graduates

**By Hannah Richardson**

BBC News education reporter

The UK needs to increase by as much as 50% the number of science, technology, engineering and maths (Stem) graduates it is creating, a report says.

The study, by the Royal Academy of Engineering, says 100,000 Stem graduates are needed a year just to maintain the status quo.

It argues the UK is already slipping down the international innovation league tables.

The UK has dropped to eighth globally in the number of US patents registered.

The report estimates 830,000 graduate-level Stem experts and 450,000



Firms across the UK are struggling to recruit engineers

### Related Stories



# Future career

Automotive Electronic Engineering

There are many electronics degrees.

Broadcast Engineering

Communications Engineering

Control Engineering

Cybernetics

Digital Systems Engineering

Electronic / Electrical

Electronic Control

Electronic Engineering Management

Electronic Engineering Systems

Electronic Power Engineering

Engineering

Medical Electronics

Microelectronics

Optoelectronic Engineering

Robotics

Telecommunications Engineering

These are some of the choices if you choose cybernetics

Applied Computer Science and Cybernetics

Artificial Intelligence and Cybernetics

Biomedical Engineering and Cybernetics

Computer Science and Cybernetics

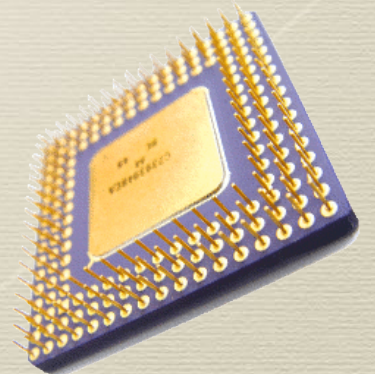
Cybernetics & Control Engineering

Electronic Engineering

Electronic Engineering and Computer Science

Electronic Engineering and Cybernetics

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# What will I learn?

## **Component 1: Discovering Electronics**

**Written examination: 1 hour 30 minutes**

**40% of qualification**

A mix of short answer questions, structured questions and extended writing questions, with some set in a practical context

## **Component 2: Application of Electronics**

**Written examination: 1 hour 30 minutes**

**40% of qualification**

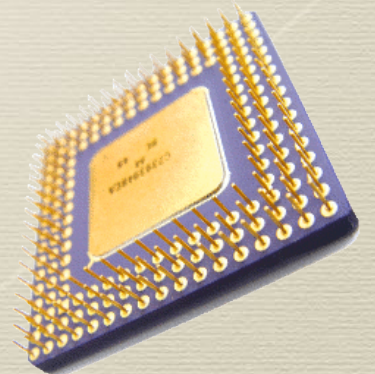
A mix of short answer questions, structured questions and extended writing questions, with some set in a practical context

## **Component 3: Extended system design and realisation task**

**Non-exam assessment**

**20% of qualification**

An extended system design and realisation task to assess electronics skills



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# What can I make for my project?

There are four categories in which candidates score marks;

- 1. System Planning**
- 2. System Development**
- 3. System Realisation**
- 4. Evaluation**

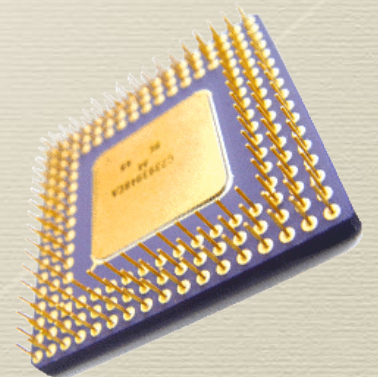
Electronic dice

A simple electronic game

An alarm system

An electronic timer

A metronome



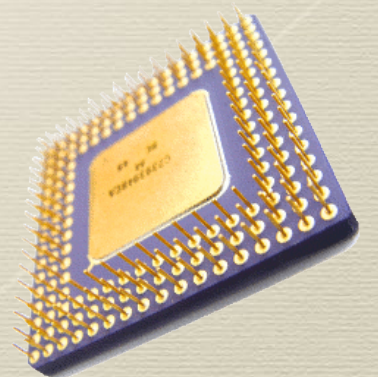
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# Will I be good at Electronic Products?

Electronic Products GCSE starts from the very beginning so if your willing to learn almost anyone can do it.

It helps if your good at solving problems, good at maths and science.



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Good luck with your choices!  
Any questions?

for more information:

[www.WJEC.co.uk](http://www.WJEC.co.uk) - search for electronics

email: [lee.welsh@greatsankey.org](mailto:lee.welsh@greatsankey.org)