

# 6

# SPRINGBOARD



## A-Level Electronics

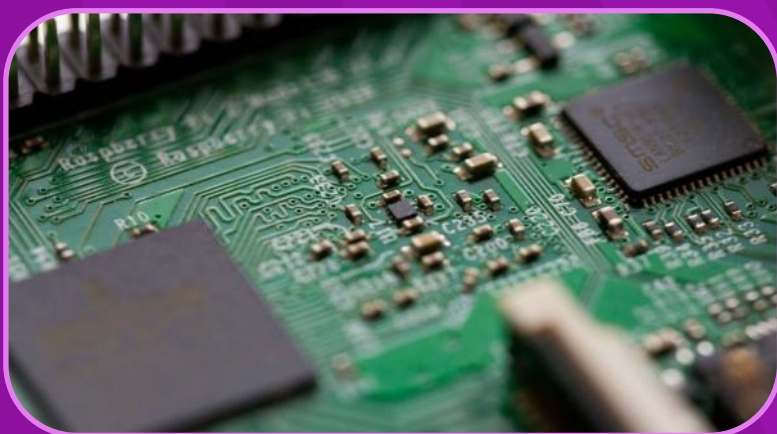
### **i** OUR COURSE DETAILS

WJEC Eduqas A level Electronics provides a broad, coherent, satisfying and worthwhile course of study. It encourages confidence and positive attitudes towards electronics whilst recognising its importance in everyday life and in today's technological society.

The WJEC Eduqas A level in Electronics will ensure that learners have the electronic and mathematical knowledge and electronic engineering skills to solve problems.

This course allows you to become quite an expert at using CAD software to design and test your ideas using software such as Crocodile-clips, Circuit Wizard, and PIC tutor. You will of course use data and word processing packages such as Excel and Word, as well as becoming confident with using the internet for electrical searches. You will enjoy the hands-on experience, building and investigating many circuits.

The students who study electronics go onto university with popular courses being engineering, and robotics and computing. Many complete apprenticeships, with some being locally such as electrical engineering at Rolls Royce and others focus on industry related employment such as training as an electrician.



### EMPLOYABILITY

[www.prospects.ac.uk](http://www.prospects.ac.uk)

This is a good starting point but we suggest you chat to as many people as you can. How did they get into the career they are in? Do you have any links into electrical work that you could explore, see if it is for you, perhaps to gain some work experience and make you stand out.



### PREPARING FOR STUDY

Most of you will not have completed much electronics at GCSE, other than perhaps the topic of electricity within science. A good starting point would be to look at the WJEC Electronics GCSE which can be found:

[www.resources.wjec.co.uk](http://www.resources.wjec.co.uk)



### FILMS

Have many films have you seen that say, "Do I cut the red wire or the blue?" Which would you do? And perhaps a little knowledge of electronics could help!

## UNIVERSITY COURSES

Electronics A-level could lead onto University courses such as:

- Electronics Engineering
- Physics
- Computing
- Acoustics
- Programming
- Design engineer
- Aerospace
- Sound engineering

But only when combined with other appropriate A levels.



## PEOPLE TO RESEARCH

Key names that are everywhere in electronics and worthy of research are Augustin de Coulomb, Alessandro Volta, Andre-Marie Ampere and George Boole. Do you know what they are famous for?



## OUR TOP READS

The best textbook to take a look at can be found here:

[resources.eduqas.co.uk](https://resources.eduqas.co.uk)

Don't worry too much if this all feels alien to you, we have two years to study this! Use this to get a feel about what the course really involves.



## USEFUL ONLINE LINKS

- Logic simulator pro, Electronics circuit calculator
- [Podcast](#)
- Geared up, The Amp Hour
- [YouTube](#)
- All AmericanFiveRadio
- [Software](#)
- [www.yenka.com](http://www.yenka.com)



## LINKS TO THE SPECIFICATIONS

The WJEC specification for A Level electronics can be found here:

[www.eduqas.co.uk](https://www.eduqas.co.uk)

