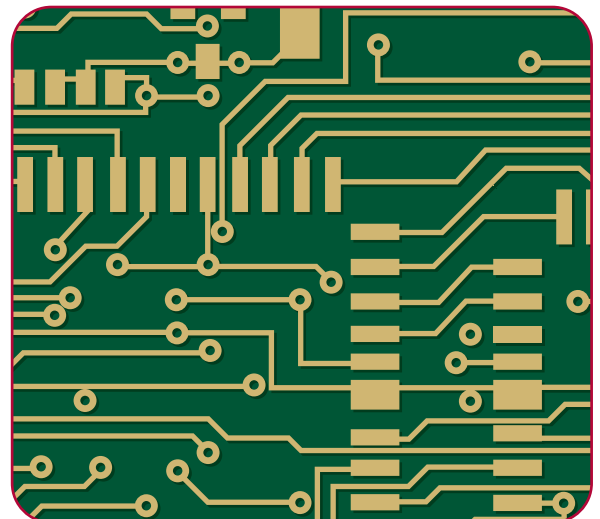




# AS/A Level Electronics

(Available for teaching from September 2008)

**This specification acquaints candidates with many of the key fundamentals of electronics, with new content on microcontrollers and video adding to the digital emphasis.**



## **What are the benefits to me and my students of delivering this OCR specification?**

- High topical relevance thanks to consultation with industrial partners Revolution Electronics.
- Easy to assess with two practical units and four written papers.
- Teachers can assess practical units throughout the year and submit a single set of marks, thanks to a new simplified mark scheme.
- Extensive coverage of both analogue and digital elements.
- This new specification is excellent preparation for students intending to study electronics at higher level or who are interested in careers where an understanding of the subject will be useful to them.

## AS Level

Unit title	Description	Mandatory/Optional?
F611 – Simple Systems	Candidates appreciate the fundamentals of modern electronics, including logic gates, digital to analogue conversion, electronic circuitry and the basic principles of microcontrollers.	Mandatory
F612 – Signal Processors	Candidates encounter systems that process signals through a series of sub-systems, including digital information storage devices, analogue amplifiers and digital counters.	Mandatory
F613 – Build and Investigate	Candidates complete three investigations into Analogue, Digital and Microcontroller as coursework to be internally marked and externally moderated.	Mandatory

## A2 Level

Unit title	Description	Mandatory/Optional?
F614 – Electronic Control Systems	Candidates explore the use of digital and analogue systems for control, including storing and processing digital data, MOSFETS, and microcontroller systems.	Mandatory
F615 – Communications Systems	Candidates appreciate the use of digital and analogue communication systems, including digital signals to display video pictures, frequency multiplexing and time division multiplexing.	Mandatory
F616 – Design, Build and Investigate	Candidates design, build and test a complete project using a breadboard utilising a subsystem approach. Microcontrollers may now be included in these projects.	Mandatory

### How is this qualification assessed?

Units 1, 2, 4 and 5 are externally assessed through written papers. Units 3 and 6 are practical projects, marked by the teaching centre and externally moderated.

Examinations series are only available in June.

#### Dates of first examinations

##### AS

First examination available from June 2009.

##### A2

First examination available from June 2010.

### What support will I receive?

#### Training

There will be a programme of INSET training for teachers.

#### Publishers

Developed in close consultation with OCR, Hodder is publishing materials for the 2008 Electronics A Level specification.

#### Resources

You can download all the following resources from the OCR website – [www.ocr.org.uk](http://www.ocr.org.uk).

- Sample candidate materials will be available for both AS units in the AS level Teacher Support Materials
- Sample Assessment Materials are available for all units
- Schemes of Work will be included in the support materials.

For more information please contact the OCR Customer Contact Centre  
on **01223 553998**, or visit [www.ocr.org.uk](http://www.ocr.org.uk)