

## Year 13 A level Electronics Revision Plans

### **What Electronics exams are taking place?**

#### **Educas Electronics**

##### Paper 1

Principles of Electronics Written examination: 2 hours 45 minutes, 40% of qualification, 140 marks This component covers the following topics:

1. Semiconductor components
2. Logic systems
3. Operational amplifiers
4. Signal conversion
5. AC circuits and passive filters
6. Communications systems
7. Wireless transmission
8. Instrumentation systems

##### Paper 2

Application of Electronics Written examination: 2 hours 45 minutes, 40% of qualification, 140 marks This component covers the following topics:

1. Timing circuits
2. Sequential logic systems
3. Microcontrollers
4. Digital communications
5. Optical communication
6. Mains power supply systems
7. High power switching systems
8. Audio systems

##### Component 3

##### Extended system design and realisation tasks

Non-exam assessment (NEA) 20% of qualification 70 marks The NEA is an integral part of the WJEC Eduqas A level in Electronics and contributes 20% to the final assessment. This component requires each learner to complete two tasks independently. The tasks build on the concepts studied throughout the specification and the requirements to relate practical circuit design and realisation to knowledge and understanding gained from the study of components 1 and 2.

Task 1 (20 marks) – involves the development of a microcontroller system programmed through assembler language.

Task 2 (50 marks) – is a substantial system development including analogue and digital sub-systems in an integrated design.

### **When are the Electronics exams taking place.**

Wednesday 5th June 2019 pm – Paper 1

Monday 10<sup>th</sup> June 2019 pm – Paper 2

### **Target date for completion of syllabus**

**15<sup>th</sup> April 2019** – From that point all lessons will be focussed on key topics based on either exam body advice, whole class trends or individual student requests. In addition students are welcome to either request revision material on any topic or find a convenient time to ask for help from Mr Childers.

The coursework component of the Exam will need to internally assessed and marked by May 8th

### **How does my Son know what to revise.**

The [WJEC Website](#) presents the entire contents of the course, however students may find it easier to refer to the [year 13 course outline](#) on the school website to review the key content for revision.

Revision for Electronics is based on practice and should be focused on topics that students are not currently confident in. They have this information from coloured analysis sheets from our mock exams and class practice papers.

### **What resources does my Son/Daughter have to support their revision.**

Students have a printed **Revision Guide** which provides detailed explanations and practice questions on every topic in their exam as well as a printed Required Practical booklet for the internally assessed component.

In addition Students may find the following websites useful to obtain practice questions by topic along with solutions

### **What additional revision is available.**

<https://www.eduqas.co.uk/qualifications/electronics/as-a-level/eduqas-a-level-electronics-spec-from-2017-p.pdf>

<https://www.eduqas.co.uk/qualifications/electronics/as-a-level/AS-Electronics-specification.pdf>

<https://www.eduqas.co.uk/qualifications/electronics/as-a-level/AS-Electronics-specification.pdf>

<https://www.eduqas.co.uk/qualifications/electronics/as-a-level/eduqas-as-electronics-sams-from-2017-eng.pdf>

<https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rlid=1179>

<https://www.eduqas.co.uk/qualifications/electronics/as-a-level/eduqas-as-electronics-sams-from-2017-eng.pdf>

<https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rlid=937>

Students are welcome to ask or email Mr Childers for help at any time and we will find the time either in class or at a convenient break to provide support.

The focus for students is on using the resources provided to simply practice topics that they are currently either making mistakes on or getting wrong. Following the principle of; Watch the Video ; make some notes ; practice the video question ; check answers ; print some further practice questions ; check answers as you go ; highlight any areas of misunderstanding ; ask for help.