

Year 7 Computing

**Internet Safety:** Introducing the safe use of the internet, awareness of the dangers of the internet.  
**Hardware and Software:** Computer science unit introducing the components that form a computer system and their purpose.  
**Computer Control:** Programming unit that introduces students to computer programming using logo turtle.  
**Impact of ICT in Society:** Looking at how computers have change today's society, communication, gaming and daily activities.  
**Spreadsheets:** Introduction to spreadsheets, using basic formulas and function.

Year 8 Computing

**Cyber Bulling:** Awareness of cyber bulling amongst young people and the danger of social networks.  
**Database and RELC Project:** Introduction to databases and how to build flat file databases. Working with the RELC team to build a flat file database for the farm.  
**Data Logging:** Introduction to data logging, students will be working with the science department (STEM).  
**Modeling:** Using spreadsheets to model data for variant results.  
**Scratch Programming:** Scratch visual programming using procedures and spirits.  
**Kodu Games Programming:** Visual programming using Kodu.

Year 9 Computing

**Computer systems:** Looking at hardware and software components that form the computer system. Input, process, output, storage and memory.  
**Computer Network:** Introduction to computer networks, LAN, WAN and building a virtual network.  
**Binary Logic:** Computer binary addition and subtraction. Converting numbers into base 2 and logic gates.  
**Advance spreadsheets:** Pathway to GCSE in Year 10. Students will learn complex formulas in spreadsheets.  
**Scratch programming:** Visual programming using scratch. This will be suitable for middle ability sets.  
**Python Programming:** Introduction to script programming using Python.

Year 10 ICT

Students will study a range of ICT systems commonly used at home schools and in society. The course provides students with the need to be aware of current and emerging technologies and the impact that advances in technology may have on themselves and others. Students will complete one controlled assessment in year 10 along with three chapters of the ICT theory.

Syllabus website link: <http://www.ocr.org.uk/qualifications/gcse-ict-j461-j061-from-2012/>  
Past papers web link : <http://www.ocr.org.uk/qualifications/gcse-ict-j461-j061-from-2012/>  
Learning and revision materials can also be found on **TRS Revise:**

Year 10 Computing

The GCSE Computing course is carefully planned to give students a real, in-depth understanding of how computer technology works. It offers an insight into what goes on 'behind the scenes', including computer programming, which many students find absorbing. It also looks at current and emerging technologies and how they work while developing computer programs to solve problems

Syllabus website link: <http://www.ocr.org.uk/qualifications/gcse-computing-j275-from-2012/>  
Past papers web link : <http://www.ocr.org.uk/qualifications/gcse-computing-j275-from-2012/>  
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### Year 11 ICT

In year 11 ICT students study a range of everyday software applications to be able to manipulate and process data and other information effectively and efficiently and to present information in a format suitable for purpose and audience. The Theory aspect will also include an investigation of the components of a computer system: Central Processing Unit (CPU), internal/main memory, backing storage, input and output devices. A range of common applications where microprocessor technology is used: personal computers, mainframe computers, super computers, embedded systems and many more

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### Year 12 ICT

The AS ICT qualification will prepare students to develop a wide range of ICT skills together with an in-depth knowledge and understanding of ICT. Students will complete a structured task coursework that is designed around tasks which cover a wide range of skills.

**G061: G061: Information, Systems and Applications (External) mandatory 2 hour exam**

**G062: Structured ICT Tasks (Coursework)**

Syllabus website link <http://www.ocr.org.uk/qualifications/as-a-level-gce-ict-h117-h517/>

Past papers web link <http://www.ocr.org.uk/qualifications/as-a-level-gce-ict-h117-h517/>

Learning and revision materials can also be found on **TRS Revise:**

### Year 13 ICT

The A2 qualification will emphasise on business ICT focus. Students will explore definitions, investigations and analysis of a real life problem. Students will design and develop the solution along with testing and implementation. Students are required to document and evaluate through a client-driven project with a mandatory two hour exam.

**G063: ICT Systems, Applications and Implications (External): mandatory 2 hour exam**

**G064: ICT Project (Coursework)**

Syllabus website link <http://www.ocr.org.uk/qualifications/as-a-level-gce-ict-h117-h517/>

Past papers web link <http://www.ocr.org.uk/qualifications/as-a-level-gce-ict-h117-h517/>

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