

Vocational Education: Computing and Information Technology

Subject:

The curriculum for computing aims to ensure that all pupils:

- can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems
- can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- are responsible, competent, confident and creative users of information and communication technology

Team members:

Mr Ali - Head of Vocational Education
Mrs Brown - Computing teacher
Mr Oparinde - Computing teacher
Mrs Mustafa - Computing teacher
Mr Blaize - Computing teacher

Facilities -

We have 3 classrooms which all have 30 computers each, these are all equipped with industry standard software. There are also other ICT classroom across the school. We also have a set of 30 ipads that are loaned out across the school. There is also a designated Room which is equipped with Imacs, these are used for IT and Media.

Curriculum Summary - (KS3, KS4 and KS5)

At KS3 we cover the following topics -

- How computers work
- E-safety
- Scratch programming
- Spreadsheets
- Binary
- Python Programming
- Animation
- networking
- computational thinking

At KS4 we follow the OCR specification for GCSE Computing. the following units are studied -

- Computer Systems
- Computational thinking, algorithms and programming
- Programming project

The BTEC Specification for ICT has changed for 2017 and has not yet been released. We will keep you updated once the new specification has been released.

At KS5 we study the Cambridge Technicals in IT and study the following units -

- Fundamentals of IT
- Global Information
- Application Design
- Digital Marketing
- Mobile Technology



Links to useful sites -

KS3

<https://code.org/learn>

KS4

<http://www.ocr.org.uk/qualifications/gcse-computer-science-j276-from-2016/>

KS5

<http://www.ocr.org.uk/qualifications/vocational-education-and-skills/cambridge-technicals-it-level-3-certificate-extended-certificate-introductory-diploma-foundation-diploma-diploma-05838-05842-2016-suite/>

Extra-curricular activities available in the CA -

The ICT rooms are open from Monday to Thursday every lunch time and afterschool for students to complete homework and coursework.