

## ICT

Head of Department: Mr M Hirani

Teacher: Mr A Bispham, Mr M Hirani, Miss R Mansoor

Examination Board: OCR



### Course Outline

Cambridge Technicals are an inspiring new generation of vocational qualifications aimed specifically at students aged 16+. They are an ideal foundation for students entering the workplace, providing them with a theoretical background reinforced with practical skills that transfer into the modern workplace. They are available at both Level 2 and Level 3 with a wide range of units. The Level 3 qualifications have UCAS points, supporting progression to HE for students. Other options include progression into employment, or to further study within FE.

### Entry Requirements

5+ GCSEs including English Language

### What Will I Study?

You will cover three varied units in Year 12 and three in Year 13. The first two units are mandatory; all other units are optional and there are currently over 30 to choose from.

#### YEAR 12 UNITS:

##### Information systems

This unit will ensure that students have a greater understanding of how organisations use information internally and externally. The skills gained by completing this unit will give students knowledge of the functionality of information and the ability to produce management

##### Communication and employability skills for IT

This unit allows students to understand what an employer expects of an individual and how to communicate effectively while developing their own personal development needs.

##### Digital graphics

This unit helps students understand the hardware and software available for working on graphic images and the file formats that exist. They will consider where these file formats are used and how the delivery method of a graphic has a bearing. Students will be able to use the hardware and software to create, modify and manipulate images to meet clients' requirements. Looking at how to gain user feedback and make changes based on this is another key feature. Students will also learn about the legal framework regulating the acquisition and use of digital graphics.

## ICT



### YEAR 13 UNITS:

#### Communication technologies

By completing this unit, students will understand the principles of computer networks, the different types of networks and the services they use. They will explore different elements of data communications systems, how data is transmitted and the protocols that enable connectivity. They will also learn how to set up interconnection devices between users and for direct communication.

#### Spreadsheet modelling

The aim of this unit is to help students understand how spreadsheets can be used to solve complex problems. They will also learn how to automate and customise their spreadsheet models. Finally, they will learn how to test and create user and technical documentation. The unit will provide students with the skills to enable them to create and use a complex spreadsheet model.

#### Website production

This unit will prepare students to design, create and test a fully functioning website, while also providing essential grounding knowledge on the architecture and security issues that need to be considered. Websites need to be well designed to keep visitors returning and avoid excluding user groups by being inaccessible. Companies need to analyse the technical considerations to ensure that they do not hinder the user experience.

### **Assessment**

All coursework is internally assessed and externally moderated by a visiting moderator. Students have the freedom to present their coursework portfolios in a format of their choice including videos, reports, presentations and audio recording. All work is submitted electronically to Moodle.

### **Career Opportunities And Progression**

Cambridge Technicals in ICT are an ideal springboard to further study at university or entry to workplace schemes. The real-world and practical content of the course means students will have a portfolio of work which demonstrates their actual ability and knowledge in ICT.

Students could enter a diverse range of ICT areas including multimedia, animation, graphics, network management, security, IT project planning, web development & software development.