



# INFORMATION TECHNOLOGY

## LEVEL 3: EQUIVALENT TO TAKING ONE A LEVEL

### WHAT YOU WILL LEARN

Information Technology is a vocational course that enables you to develop both theoretical and practical skills ideal for the IT industry. During the course, you will learn about the fundamentals of IT through the exploration of IT systems, security, communication, hardware and software.

You will also develop an appreciation of the global impact of IT through your studies of how information and data is used. In the second year, you are then able to apply your theoretical knowledge into coursework by undertaking the planning and creation of two prototypes and the creation of a complete website. You will do this by following and completing all stages of the product life cycle, replicating industry processes.

### EXAM TOPICS

#### Fundamentals of IT:

- Computer Hardware
- Computer Software
- Business IT systems
- Ethical and Operational Issues

#### Global Information:

- Information Storage and Transmission
- The Use of Global Information
- The Process Flow of Information
- The Principles of Information Security

### COURSEWORK TOPICS

- The Product Development Life Cycle
- Planning the Development of a Product for a Client
- The Fundamentals of Design
- Creating Prototypes for a Client
- Implementation and Testing of Products

### WHAT YOU NEED:

- GCSEs to include a minimum Grade 4 in English and Mathematics

### HOW YOU WILL BE ASSESSED

- 40% Examination
- 60% Coursework

### WHERE CAN INFORMATION TECHNOLOGY TAKE YOU?

#### UNIVERSITY COURSES

- Information Systems
- Cyber Security
- Data Analytics
- Computer Science
- Game Design

#### CAREER PATHWAYS

- Cyber Security
- Graphic Design
- Business and IT Systems
- Software Testing
- Web Design
- IT Technician
- Technology Communication

### ADDITIONAL INFORMATION

We have regular visits from Cisco and IBM, where both discuss career paths along with delivering workshops in relation to course content.