

IT

OCR

Cambridge Nationals Award

Meet the teaching team



Mr Kerr

Head of Computer Science & IT



Mr Casey

Computer Science & IT



Miss Kilpatrick

Computer Science & IT

Why choose IT?

You may be interested in IT if you want an engaging qualification where you will use your learning in practical, real-life situations such as:

- ✓ Using different applications and tools to design, create and evaluate IT solutions and products
- ✓ Creating a data manipulation solution through spreadsheets
- ✓ Creating an augmented reality application

This will help you to develop independence and confidence in using skills that would be relevant to the IT sector.

What skills can you get from IT?

The course will help you gain a number of skills including:

- Planning and designing IT solutions and products for a given purpose
- Selecting the best tools and techniques to solve a problem
- Solving problems by exploring different software application tools and techniques
- Creating IT solutions and digital products
- Use of planning techniques to complete tasks in an organised and timely way
- Finding imaginative ways to solve IT problems



How could it help with your future?

This qualification will complement other learning that you are completing for GCSEs or vocational qualifications at Key Stage 4 and help to prepare you for further study. The practical skills learned are easily transferable to different subjects and will set you up for higher education.

The increasing importance of information technologies means there will be a growing demand for professionals who are qualified in this field.

This course is also useful if you are thinking of a career in engineering, financial, resource management, data analysis or business management.

Course content: What will you learn?

Course Structure

R050 - IT in the digital world	R060 - Data manipulation using spreadsheets	R070 - Using Augmented Reality to present information
40%	30%	30%
Written paper	Coursework	Coursework

R050:

What will you learn?

IT in the digital world. This is assessed by taking an exam. In this unit you will learn about design and testing concepts for creating an IT solution or product, and the uses of IT in the digital world. Topics include:

- ☐ Design Tools
- ☐ Human Computer Interface (HCI) in everyday life
- ☐ Data and testing
- ☐ Cyber-security and legislation
- ☐ Digital Communications and Internet of Everything (IoE)

R060:

What will you learn?

Data manipulation using spreadsheets. This is assessed by coursework. In this unit you will learn how to plan, design, create, test and evaluate a data manipulation spreadsheet solution to meet client's requirements. You will be able to evaluate your solution based on the user requirements. Topics include:

- ☐ Planning and designing the spreadsheet solution
- ☐ Creating the spreadsheet solution
- ☐ Testing the spreadsheet solution
- ☐ Evaluating the spreadsheet solution

R070:

What will you learn?

Using Augmented Reality to present information. This is assessed by coursework. In this unit you will learn how to design, create, test and review an Augmented Reality model prototype to meet a client's requirements. Topics include:

- ☐ Augmented Reality (AR)
- ☐ Designing an Augmented Reality (AR) model prototype
- ☐ Creating an Augmented Reality (AR) model prototype
- ☐ Testing and reviewing

Augmented Reality

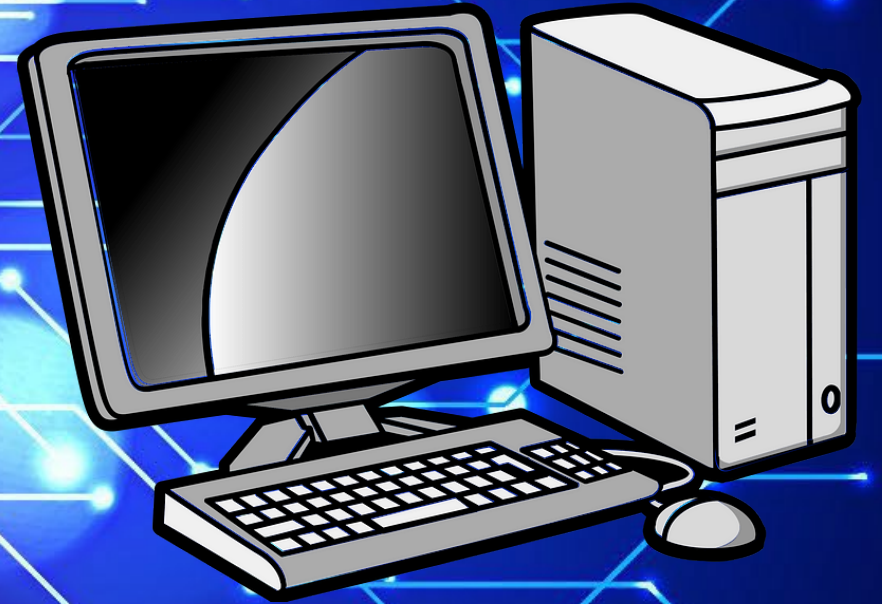
Augmented reality (AR) is a technology that allows people to superimpose digital content (images, sound, video, text) over real life scenes or objects.



We will use software to create your own AR prototype, where you will plan it, create it and test it.

What makes a good IT student?

Attention to detail
Problem solving skills
Ability to work at a fast pace
Excellent organisational skills
Independence
Enjoy using software including
spreadsheets and app development
Good attendance



Where can IT lead?

Further education:

Cambridge Advanced Nationals IT/App Development offered at Barrow Hall College
A Level Computer Science offered at Barrow Hall College
IT/Computing or similar courses at university

Job prospects:

App developer
Web designer
Cyber Security
Project Management
IT Apprenticeships

Thank you for listening.

Are there any questions?