Great in name, greatest together

GreatSankey
High School

Cambridge Nationals Information Technology

You may be interested in this 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
- ✓ Creating an Augmented Reality prototype.

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

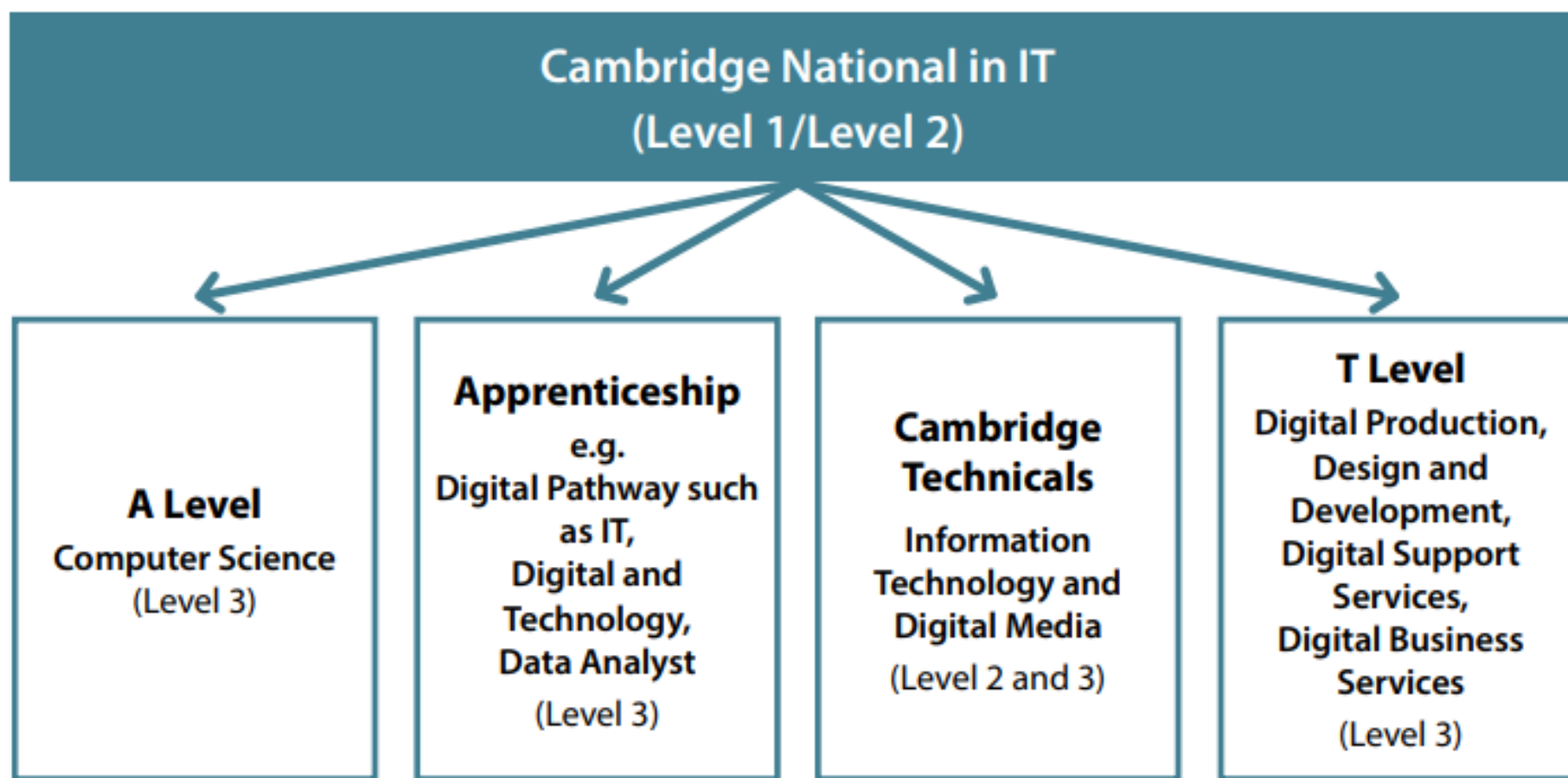➤ Finding imaginative ways to solve IT problems.

How could it help with your future?

This qualification will complement other learning that you're 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 analyst, Business.

Course Structure

RO50 - IT in the digital world	RO60 - Data manipulation using spreadsheets	RO70 - Using Augmented Reality to present information
40%	30%	30%
Written paper	Coursework	Coursework

Unit 1: RO50 – What will you learn

R050: 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 o Internet of Everything (IoE).

R060: Data manipulation using spreadsheets. This is assessed by completing a set assignment. 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: Using Augmented Reality to present information. This is assessed by completing a set assignment. 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
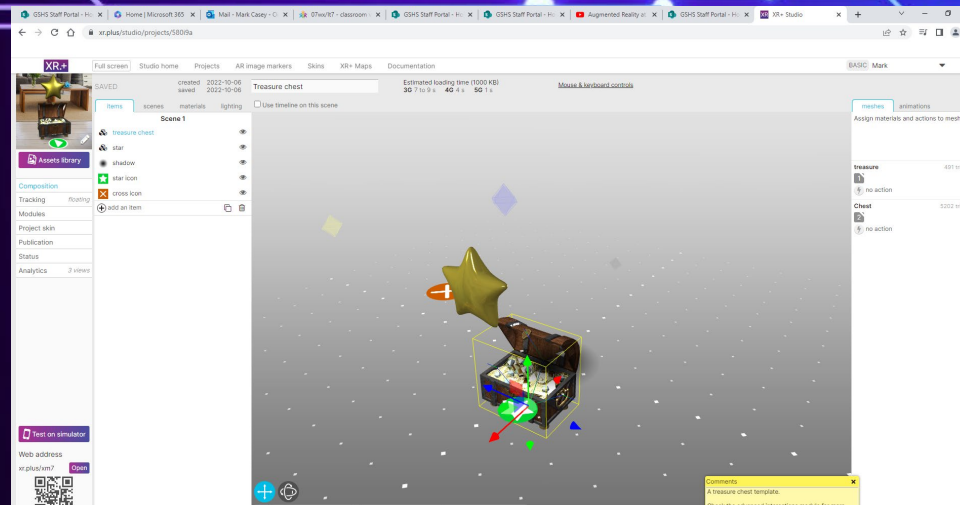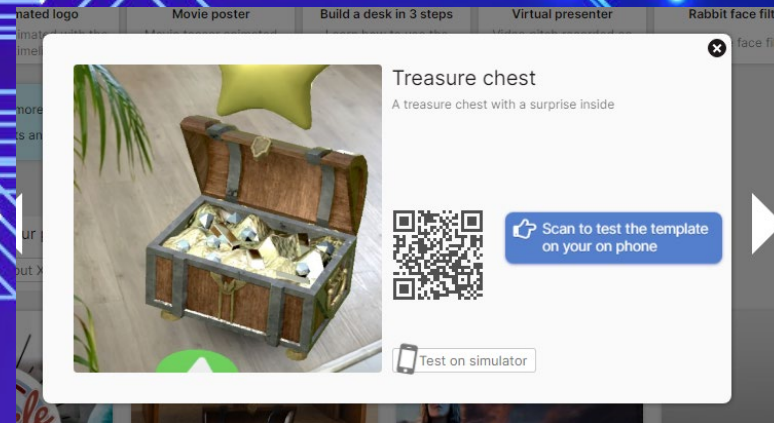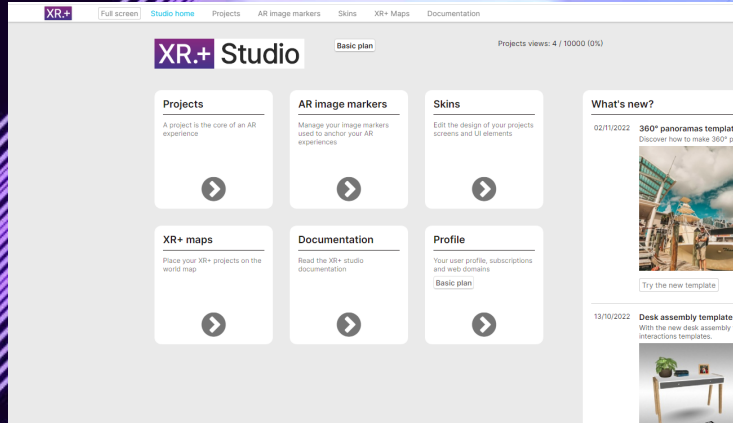❖ Testing and reviewing.

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

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Augmented Reality

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

Theory lessons will be delivered using a variety of resources:

Multimedia presentations
Worksheets
Interactive websites
Online revision guides
Online video tutorials

All resources will be available through Microsoft Teams/OneNote classbook for you to access and revise from home as well as school.

PEER TEACHING

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Logical brain and can break problems down

Problem solving skills

Excellent practical skills

Ability to work at a fast pace

Excellent organisational skills

Independence

Good attendance

Where can Information Technology lead?

Further education:

Cambridge Technical IT offered at Barrow Hall College
A Level Computer Science offered at Barrow Hall College
ICT or similar courses at university

Job prospects:

Software developer
Web designer
Cyber Security
Project Management
Apprenticeships

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