

## KS3 Curriculum Information

In KS3 students will learn how to control computers and the technology around them. They will learn how to manipulate and think like computers.

Topics Covered

- E-Safety
- Python Programming
- Pseudo code
- Data representation
- Computational thinking
- Web design (HTML-CSS)
- Computer networks
- Digital Graphics
- Video Editing
- Audio programming

## KS4 Curriculum Information

We currently offer a GCSE in Computer Science;

### Unit 1 - Understanding Computer Science

EDUQAS will set an examination each session covering the following aspects of the specification content:

- Computer Systems
- Data Representation
- Computer Software
- Networks
- Internet & Communications
- Algorithms
- Programming
- Ethical, Social, and Legal Aspects

This external assessment will take the form of a paper-based examination.

### Unit 2 - Solving Problems Using Computers

This assessment consists of a series of tasks set and marked by WJEC and completed on-screen by the candidate. These tasks will assess the practical application of programming knowledge.

### Unit 3 - Developing Computing Solutions

This controlled assessment will give candidates the opportunity to develop a piece of work using programming software following a task brief from a choice of two issued by WJEC.

## Key Trips

Science Museum and Apple Regent Street

7n/Co1	7x/Co1	7x/Co2	7x/Co3	7z/Co1	7z/Co2	7z/Co3
Introduction to RPHS and the RaspberryPi computer	Introduction to RPHS and the RaspberryPi computer	Introduction to RPHS and the RaspberryPi computer	Introduction to RPHS and the RaspberryPi computer	Introduction to RPHS and the RaspberryPi computer	Introduction to RPHS and the RaspberryPi computer	Introduction to RPHS and the RaspberryPi computer
Assessment						
Half Term						
Scratch	Scratch	Scratch	Scratch	Scratch	Scratch	Scratch
Assessment						
Christmas						
HTML basic web pages	HTML basic web pages	HTML basic web pages	HTML basic web pages	HTML basic web pages	HTML basic web pages	HTML basic web pages
Assessment						
Half Term						
Spreadsheets	Spreadsheets	Spreadsheets	Spreadsheets	Spreadsheets	Spreadsheets	Spreadsheets
Assessment						
Easter						
Image manipulation	Image manipulation	Image manipulation	Image manipulation	Image manipulation	Image manipulation	Image manipulation
Assessment						
Half Term						
Python	Python	Python	Python	Python	Python	Python
Assessment						

## Year 8 - Computer Science Curriculum Plan

8x/Co1	8x/Co2	8x/Co3	8z/Co1	8z/Co2	8z/Co3
Introduction to RPHS and the RaspberryPi computer	Introduction to RPHS and the RaspberryPi computer	Introduction to RPHS and the RaspberryPi computer	Introduction to RPHS and the RaspberryPi computer	Introduction to RPHS and the RaspberryPi computer	Introduction to RPHS and the RaspberryPi computer
Assessment					
Half Term					
Binary representation	Binary representation	Binary representation	Binary representation	Binary representation	Binary representation
Assessment					
Christmas					
HTML and CSS	HTML and CSS	HTML and CSS	HTML and CSS	HTML and CSS	HTML and CSS
Assessment					
Half Term					
Spreadsheets – Booking System	Spreadsheets – Booking System	Spreadsheets – Booking System	Spreadsheets – Booking System	Spreadsheets – Booking System	Spreadsheets – Booking System
Assessment					
Easter					
Scratch	Scratch	Scratch	Scratch	Scratch	Scratch
Assessment					
Half Term					
Python	Python	Python	Python	Python	Python
Assessment					

## Year 9 - Computer Science Curriculum Plan

9A/Co1	9B/Co1	9D/Co1
Introduction to RPHS and the RaspberryPi computer	Introduction to RPHS and the RaspberryPi computer	Introduction to RPHS and the RaspberryPi computer
Assessment		
Data Representation and Computer Systems	Data Representation and Computer Systems	Data Representation and Computer Systems
Assessment		
Half Term		
HTML sites and advanced CSS, Java script	HTML sites and advanced CSS, Java script	HTML sites and advanced CSS, Java script
Assessment		
Christmas		
Planning and creating a computer programme in Python	Planning and creating a computer programme in Python	Planning and creating a computer programme in Python
Half Term		
Assessment		
Easter		
Greenfoot	Greenfoot	Greenfoot
Assessment		
Half Term		
Mobile phone Applications	Mobile phone Applications	Mobile phone Applications
Assessment		



## Year 10 - Computer Science Curriculum Plan

10B/Co1	10D/Co1
Introduction to RPHS and the RaspberryPi computer	Introduction to RPHS and the RaspberryPi computer
Assessment	
Hardware	Hardware
Assessment	
Logic and Arithmetic in Computers	Logic and Arithmetic in Computers
Communication, Networks and the Internet	Communication, Networks and the Internet
Assessment	
Organisation and structure of data, File design and data representation	Organisation and structure of data, File design and data representation
Assessment	
Operating Systems	Operating Systems
Principles of programming and Software engineering	Principles of programming and Software engineering
Assessment	
Greenfoot	Greenfoot
Assessment	
Python	Python
Assessment	

## Year 11 - Computer Science Curriculum Plan

11A/Co1	10D/Co1
Introduction to RPHS and the RaspberryPi computer	Introduction to RPHS and the RaspberryPi computer
Assessment	
Problem Solving using Computer, Algorithms and programming constructs	Problem Solving using Computer, Algorithms and programming constructs
Assessment	
Half Term	
Controlled Assessment in class	Controlled Assessment in class
Christmas	
Organisation and structure of data, File design and data representation	Organisation and structure of data, File design and data representation
Hardware	Hardware
Assessment	
Half Term	
Operating Systems	Operating Systems
Principles of programming and Software engineering	Principles of programming and Software engineering
Communication, Networks and the Internet	Communication, Networks and the Internet
Assessment	
Easter	
Greenfoot	Greenfoot
Operating Systems	Operating Systems
Logic and Arithmetic in Computers	Logic and Arithmetic in Computers
Assessment	
Half Term	
Exams	Exams