

KS2 – Algorithms, Scratch E-Safety and Networks

BACKTO

SCHOOL

YEAR 7 -

7.2 Algorithms (CS)

All programs are a precise set of step by step instructions. This starts with flowcharts, the shapes in logo and ends with some visual coding in Edublocks

7.4 Inside the machine (CS)

What is a digital machine and how does it works and then some Google Sketchup

8.1 The Internet (IT)

Build a timeline and explain the milestones in the history of the web/internet.

8.3 Spreadsheets (IT)

Learn the use of a wide range of spreadsheets formulae in a range of examples and then apply the skills into a single project. COMPUTER SCIENCE

7.1 Digital Literacy

How you safely use the computer networks that you need for learning and protect yourself online.

7.3 Computers: Past, Present & Future (IT)

Create a presentation on the three computer era's (Babbage, to Microsoft/Apple and then today's Internet era) and then look at employment in the field

YEAR 8

8.2 Python 1 (CS)

An introduction to text based coding and learning the basics of print, if/else, loops and arrays.

8.4 The world of Apps (CS)

You will make your own App and in it you will show your understanding of how a computer works, the electronics that control it and what is in it.

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YEAR 9

9.2 Python 2 (CS)

Learn a more advanced set of Python skills and build your own game to showcase your skills

9.4 The role of Computer Games (CS)

Build basic games on a Microbit and then understand the development of the games Industry.

DIT L2 (IT)

This BTEC course has two pieces of coursework and one exam. The first piece of coursework is designing an information system. The second is making a spreadsheet and then there is an exam.

GCE (A Level)

BTEC L3 IT (IT)

This very successful course has 4 units. 1 on social media in business, 1 on the use of databases, 1 on the use of spreadsheets for a real enduser and 1 overall exam. BACK™ SCHOOL

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9.1Recipe Site (IT)

Design a website for a target audience with your own recipes and build a cost model for running it as a business.

9.3 Digital Campaigning (IT)

Build a logo and video to support fundraising and awareness for a charity or cause

GCSE

GCSE Computer Science (CS)

You will do 2 exams: 1 exam is all about coding in Python

The other exam has 5 questions on: Algorithms Data (Binary / Hex) Hardware Networks Ethics and the Law

GCE Computer Science (CS)

You will do 2 exams (40%) each and a piece of coursework (20%). The coursework can be in any language but, must be a solution for an enduser. The exams have 1 theory and 1 about coding.