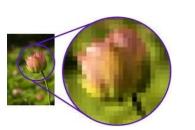
Computer Science Curriculum Map (Year 11)

Pearson / Edexcel (GCSE) [2022 - 2023]



Practical & Theory GCSE Exams

Revision for theory exam

Revision for practical exam



Practical & Theory Assessment

Recipient of packet

1111111111

192.00.00.75

Data Structures – one dimensional, Errors.

Data types, string manipulation and validation Data structures (one-dimensional) Trace tables Problem solving

Sound, Bitmaps, Compression

halvellos

halve(n):

print(n)

a = int(a/2)

n = n + a

Bitmaps – how graphics are stored using binary. Sound - how sounds are stored using binary. Compression - lossy and lossless

Practical & Theory

Assessment

Data Structures – two dimensional - Flow charts.

Data structures (two-dimensional) Subprograms (local, global, procedures, functions) Problem solving Trace tables, errors Problem solving, testing with data

robotics 1
Al, machine learning & robotics 2 Personal data Privacy & ownership Data protection legislation

I, Robotics, Data Protectior & Computer misuse acts.

AI, machine learning &

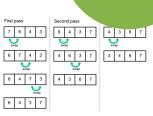
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To: 192.00.00.75

Year 11 - Term 2

Year 10 - Term 3

Practical & Theory Assessment



Environmental issues, low/high level programs

Environmental impact: manufacture & use Environmental impact: e-waste Low-level & high-level languages Translators Intellectual Property

Trace tables, Bubble sort, Binary search

Trace tables Errors Bubble sort Binary search Problem solving

Practical & Theory Assessment Embedded systems, Packets, TCP/IP

Sender of packet

192.16.00.12

Embedded systems The Internet of Things Packet switching TCP/IP 2

Sub programs, Libraries, Local vs Global Variables

The Internet

Intro to programming Subprograms Local, global Maths, time Problem solving

Year 11 - Term 1