

1.2.2. Secondary Storage What is secondary? What is flash

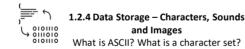
GCSE

memory? What are the common types of storage? What types are use for what?



## 1.2.1 Primary Storage (Memory)

What is primary storage and what is the purpose of RAM and ROM. the III. differences between them, the advantages and disadvantages? Why do we need virtual memory? What is flash memory?



## 1.2.5 Compression What is compression? What is the difference

between lossy and lossless compression?



What are bitmaps, image resolution, colour depth and metadata? How can sound be sampled and stored? How does sampling rates, duration and bit depth affect the size of sound files and quality of its playback?

## 2.2.3 Additional Programming Techniques

Use string manipulation & file handling, open, read, write, close. Storing data in records. Using SQL to search for data. Using arrays to solve problems, 2D as well as sub programs & random number generation.



2.2 Programming Fundamentals Sequences, selection & iteration Arithmetic, integers, Boolean. Characters & string manipulation (in an orchestra?), using appropriate data types and

casting (acting?)



2.2.2 The Use of Data Types Using appropriate data types and casting (acting?)

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Education

# 1.1 Systems Architecture

What is the CPU? How does it function? What are the components it is made of? What are the common characteristics which affect performance? What are embedded systems? Who is Von Neumann?



2.1.1. Computational Thinking and 2.1.3 Designing, **Creating and Refining Algorithms** Using abstraction, decomposition and algorithmic thinking to define a problem. Create structure diagrams

& flowcharts. Writing algorithms using Python. How do I identify bugs and fixes? What are trace tables?

## 2.2.1 Programming **Fundamentals** Using variables, constants, operators. inputs/outputs (and shake it all about).

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Specification requirements. Mark Scheme. Course calendar. Where to find resources. Folder Setup. Workbooks. Homework calendar. Student/Teacher expectations. Understanding of flipped and unflipped learning. What is a

computer?

Introduction



Creating simple logic diagrams and truth tables. Combine Boolean and logical operators to solve problems

