

AUTUMN

1.2 Memory and storage: What is primary & secondary storage and what is the purpose of RAM and ROM, the differences between them, the advantages and disadvantages? Why do we need virtual memory? What is flash memory? What are the common types of storage? What types are use for what? What is data capacity? What's a nibble (is that break time?) What is binary, denary, hexadecimal and ASCII? What is a character set? 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? What is compression? What is the difference between lossy and lossless compression?

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?

Introduction

Introduction 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?