

Computing KS3: Year 9

Ambition for
All



Year 9

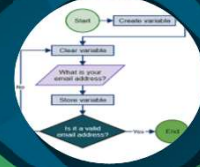
Types of
Computer
Hardware



HT1 – Hardware/Software

Input/output and Storage
Components. The
Central Processing Unit.
Sys Software Operating
Systems. . Careers.
Application Software.
Main Memory.
Secondary Storage.
Storage Capacity

HT2 – Algorithms & programming



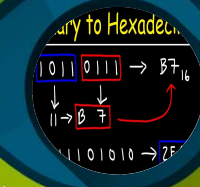
Computational Thinking.
Sorting (Bubble). Sorting
(Merge). Operating Systems.
. Careers. Pseudocode.
Python Input, Output &
Storage. Python Strings. .

HT3 – Textual Programming



Python Selection. Python
Count. Iteration. Python
Condition Iteration. Careers.
Lists. Arrays. Sub routines.
Functions.

HT4 – Data Representation



Binary conversions. Binary
addition. Hexadecimal.
Logic Gates. . Careers.
Images. Sound .

HT5/HT6 – CS Networks



Network types. Networking.
Hardware. Network threats.

Client server networks. Peer
to peer networks. Types of
Server. Careers. Internet

HT5/HT6 – IT Data Collection/UI Production



Chars of data/information.
Representing information

Information Quality.

Careers. Data collection.
Data Modelling Sectors.
Threats.

Dashboard production.
Careers. Drawing
conclusions.