Foxford Learning Plan

YEAR 9

Topic 9.4 Think like a computer

Spring 2

Key Vocabulary

Denary	Our standard 0 – 9 number system, base 10
Binary	Number system understood by computers, base 2, 0 & 1
Motherboard	A key component that harbours other internal components, providing links between them
CPU	The brain of the computer
RAM	Random Access Memory – volatile memory
ROM	Read Only Memory – non-volatile memory
Cache	Temporary data store
Fetch	The first part of the fetch-decode-execute cycle, where a computer gets the instructions
Decode	The second part of the fetch-decode-execute cycle, were a computer deciphers what it must do
Execute	The third part of the fetch-decode-execute cycle were a computer carries out the instruction
Data	Instructions within the computer

Key Skills

Over the course of the topic, I will be able to: -
Identify key computer components
Explain what key computer components do
Describe how key components link together
Explain information flow in a computer
Describe the stages of the fetch – decode – execute cycle
Convert between binary and denary
Convert between denary and binary
Complete basic binary maths
Reflect on my work





I will Understand

1. What is inside a computer
2. How what is inside a computer helps it to function
3. How computer components work together
4. How information travels in a computer to complete an instruction
5. The stages of the fetch-decode-execute cycle
6. Basic binary
7. How to be a reflective learner