Foxford Learning Plan

ICT

Year 8

Autumn 1

Key Vocabulary

Graphics card	Used to feed an output to a monitor and can contain additional memory and processing for video or graphics
RAM	loses all its contents when the computer is switched off
ROM	Retains its contents permanently. You cannot alter the contents of ROM – the contents are written when the ROM chip is manufactured.
ASCII	each keyboard character can be represented using a binary pattern.
Hard Disk	Used for permanent offline storage
Pits	burnt patches of disk
Lands	untouched parts of the disk.
Binary	Binary uses only two different digits: 0 and 1. These represent On and Off

Key Skills

Over the course of the topic, I will be able to: -
Distinguish between hardware and software
Give examples of computer hardware and software
Draw a block diagram showing CPU, input, output and storage devices
Name different types of permanent storage device
Suggest appropriate input and output devices for a simple scenario
Explain what RAM and ROM are used for
Show how numbers and text can be represented in binary
Explain the impact of future technologies





I will Understand

1. How to perform simple binary arithmetic
2. State the strength and weaknesses of different storage devices
3. Describe how data is stored in a CD
4. Identify input and output devices for more complex scenarios
5. Explain how characters are encoded using the ASCII system
6. Use an ASCII reference chart to convert a character into binary and its decimal equivalent