

**Peripherals (Input/Output)**

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| **Keyboard** | Allows to type things into the computer (Input) |
| **Mouse** | Selects and moves things around on the screen (Input) |
| **Monitor** | Screen Device (Output) |
| **Printer** | Makes physical copies of documents (Output) |
| **Scanner** | Makes digital copies of documents (Input) |
| **Microphone** | Records sound (Input) |
| **Speakers** | Emits sound (Output) |
| **Webcam** | Captures image and video to display on the screen (Input) |

**Internal Components**

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| **Power Supply** | Responsible for providing power to all components. |
| **CPU** | Responsible for the fetch-execute cycle with runs and completes tasks. |
| **Motherboard** | Responsible for housing and connecting other components. |
| **Cards** | Different specialised cards that do different jobs:  - Graphics Card – What you can see on the screen.  - Sound Card – What you can hear and when recording.  - Network Card – Communication between devices. |

Half Term 1 Knowledge Organiser to also focus on Unit 2 – Hardware and Software

**Devices**

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| **Desktop Computer** | A computer tower with peripherals such as monitor, mouse and keyboard. |
| **All-in-One** | A small computer attached to the monitor with a mouse and keyboard. |
| **Laptop** | A portable device with a screen and built-in keyboard. It folds to take up little storage space. |
| **Tablet** | A touch screen device that is portable and uses apps. |
| **Smart Phone** | A smaller portable touch screen device that can connect to the internet and can conduct other functions such as phone calls and texting. |
| **Games Console** | A device used for gaming. Some have their own screens whilst others need extras like a monitor or TV screen. |
| **Smart T.V.** | A T.V. that connects to the internet and can use apps. |
| **Smart Watch** | A watch that connects to other devices and is capable of monitoring things such as number of steps taken and messages. |

**What you need to be able to do**

* Understand the different between hardware and software.
* List the difference pieces of hardware such as devices, peripherals, and the internal components.
* Explain the functions of different hardware, and know their category such as input or output.

**Keywords**

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| --- | --- |
| Hardware | Software |
| Device | Peripheral |
| Input | Output |
| Internal | Component |
| Function |  |

**Year 9 Unit 2 - Half Term 3 – Hardware and Software**