

# Year 7 Introduction to Computers Knowledge Organiser

## Computer System

A basic, **complete**, and **functional** computer.

It will include all the hardware and software required to make it functional

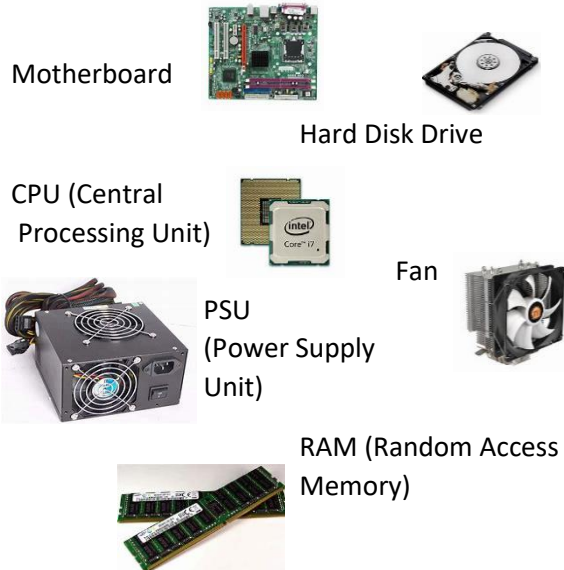
INPUT → PROCESS → OUTPUT

## Hardware

Computer hardware refers to the **physical parts of a computer and related devices**.

Internal hardware devices include motherboards, hard drives, and RAM.

## Computer Components



## Types of Computer Storage

Storage is a **mechanism that enables a computer to retain data**, either temporarily or permanently. Storage is among the key components of a computer system and can be classified into several forms, although the types we cover are:

### Internal Storage:

Most often refers to a **computer's internal** hard drive. This is the primary storage device used to store a user's files and applications. The computer's internal memory, **RAM (Random Access Memory)** and **ROM (Read Only Memory)** is also classed as internal storage.



### External Storage:

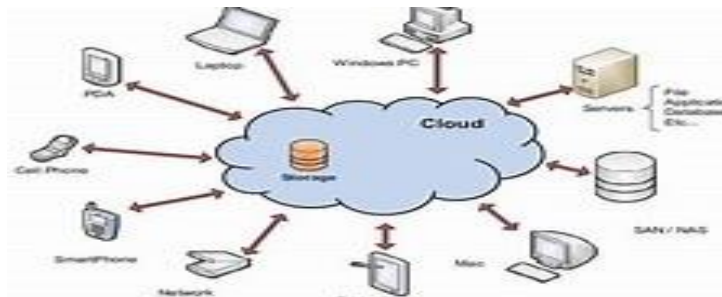
Commonly referred to as an external drive, external storage is storage that's not part of the internal parts of a computer. These drives often connect to the computer using a connection, such as USB (Universal Serial Bus).



Common types of external storage are **Flash Drives (USB Sticks)** and **DVDs**.

### Cloud Storage

Cloud storage is a cloud computing model in which data is stored on remote servers accessed from the internet, or "cloud".



## Software

Computer software refers to the programs and other operating information used by a computer.

The main piece of software on a computer is the

### Operating System

The part of the operating system we see on screen is known as the User Interface.

- Graphical User Interface (GUI). The most popular type of system. They combine menu driven interfaces with icons.
- Command Line Interface (CLI). Users need to learn the commands to make it work.
- Menu Driven Interface. A list of options organised under various headings or menus

### Most used Operating Systems (OS)

- Microsoft – Windows
- Apple – iOS
- Google - Android



Apple™

