

What is a Computer? A Computer is an electronic device.

What is the main function of a computer? Processes Data.

Computer Language: (Binary Code/Uses 0's&1's/On & Off)

Types of Computers

- **Personal Computer (PC).**
- **Desktop Computers:** (Separate: Tower+Screen+Keyboard+Mouse).
- **All in One Desktop Computer:** (Combines as one: Tower+Screen+Keyboard+Mouse).
- **Laptop Computers** are Portable and Battery operated.
- **Tablet Computers** are mobile computers with a touchscreen display.
- **Server Computers** are network computers that share information.

Operating System

A Software that runs the computer.

Windows Operating System: (Company: Microsoft – Owner: Bill Gates)

Macintosh Operating System: (Company: Apple – Founder: Steve Jobs)

Software

A set of instructions that performs tasks on a computer.

Hardware

Any part of a computer that you can physically touch.

Buttons/Ports

Power Button: (Turn On/Off)

Power Chord: (Connected to Electrical Socket)

USB Port: (Flash Drive/Printer/Wireless Mouse/PC Camera)

Monitor Port: (VGA/HDMI)

Ethernet Port: (Internet Cable)

Audio Jack Port: (Headphones/Speakers)

Disk Drive: (CD/DVD)

Inside of a Computer

Circuit Board or Mother Board

A motherboard is the main circuit board inside a computer that connects the different parts of a computer together.

Functions of the Motherboard

Different components are installed such as the CPU, RAM and hard disks.

Expansion slots are available to install other devices.

Distributes power to the various components of the computer.

Motherboard Components

CPU Chip

Memory Card

Hard Disk

DVD Drive

Network Card

Video Card

Audio Card

USB Port

Power Supply

CPU: (Central Processing Unit) Brain of the Computer, Processes Information.

RAM: (Random Access Memory) Short Term Memory/Can't Save Data.

Hard Disk Drive: Long Term Storage Unit.

Expansion Slots: Is a port on the motherboard that allows Plug-Ins (sound card)

Power Supply Unit: Used to connect to Electricity.

Network Card: Is used to connect the computer to the Internet.

Sound Card: Is used to connect to Headphones or Speakers

Display Card: Is used to connect to Screen or Monitor

USB Port: (Universal Serial Bus) to connect Printer cable/Wireless mouse,...