MORE COMPUTER BASICS

Definitions

- CPU:
 - Central Processing Unit
 - Brains of the computer
 - All of the processing goes on through the CPU
- RAM
 - Random Access Memory
 - Like the short term memory on the computer
 - Only VOLITILE INFORMATION CAN BE STORED HERE
- ROM
 - Read Only Memory
 - Like the Long Term Memory on the computer
 - ONLY NON-VIOLITILE INFORMATION CAN BE STORED HERE

RAM

VS

ROM

- Requires a constant form of power to work
- Programs that are turned on and running stored here for better efficiency

Volatile

(Elements erased when device is turned off)

- Does not require a constant form of power to run
- Start up files are found here
- Hard drive

Non-Volatile (Memory that will be saved when turned off)

Definitions Continued:

Motherboard

- Heart of the computer
- Main circuit board that connects everything together on the computer

• Hard Disk Drive

Main storage unit on the computer

The main parts of a computer system that process information.

Processing

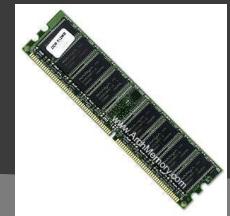


CPU Central Processing Unit The CPU is often called the "brains" of the computer.

ROM is <u>permanent</u> internal memory that cannot be changed.

ROM Read Only Memory





RAM Random Access Memory RAM is <u>temporary</u> memory that can be changed.



Memory, what's it all mean?

- Bit Smallest Unit of Memory
- Syte 8 Bits = Bite
- Kilobyte …… 1000 Bites
- Megabyte 1 Million Bites (approx)
- Gigabyte 1 Billion Bites (approx)
- Terabyte 1 Trillion Bites (approx)

 Others: Petabyte, Exabyte, Zettabyte, Yottabyte

Storage Devices

Needed for permanently storing important information such as computer programs, files, and data.

Plastic or metal platters that are coated with oxide and store data magnetically.

A small storage device that can be plugged into a USB port. Magnetic Storage Hard Disk Floppy Disk Videotape

> Optical Storage CDs DVDs

USB Storage



A storage medium on which data is recorded and read by two lasers



Hertz

- Hertz measures the speed of a CPU
 Hertz = number of cycles per second
- Megahertz
- Gigahertz
- Terahertz

Input / Output



Scanner Input



Keyboard Input





Speakers Output



Monitor Output

Mouse Input



Printer Output



Headset Input/Output