

Name \_\_\_\_\_

Period \_\_\_\_\_

## Notes 2 – Computer Hardware

### Computer Hardware

- All the \_\_\_\_\_ or \_\_\_\_\_ parts of a computer
- Includes the electronic and mechanical devices that process the data; refers to the computer as well as \_\_\_\_\_ devices. (Can be seen and touched)

### System Unit or Tower

- Case that holds the power supply, storage devices, and the circuit boards (including the motherboard).

### Motherboard

- The central printed \_\_\_\_\_ board (PCB) of modern computers.
- Holds many \_\_\_\_\_ of the computer system.
- Provides connectors for peripheral devices.
- Sometimes known as the main board, system board, or logic board.

### CPU (Central Processing Unit)

- Where the processing in a computer takes place, often called the \_\_\_\_\_ of the computer.

### Circuits

- The \_\_\_\_\_ from one component of a computer to another.
- Data travels through circuits.
- Circuits run between
  - RAM and the microprocessor
  - RAM and various storage devices

### Silicon

- Silicon is melted sand.
- Silicon is what circuits are embedded into to keep them stable.

### Peripheral devices

- Used to \_\_\_\_\_ the computer's input, output and storage \_\_\_\_\_.

### Sound Card

- A circuit board that gives the computer the ability to accept \_\_\_\_\_, play sound files, and produce audio \_\_\_\_\_ through speakers or headphones.

### Input Devices

- Units that gather and transform information into a series of \_\_\_\_\_  
\_\_\_\_\_ for the computer.

## ☒ Keyboard

- An arrangement of letters, numbers, and special function keys that act as the \_\_\_\_\_  
\_\_\_\_\_ to the computer.

## ☒ Mouse

- An input device that allows the user to \_\_\_\_\_ objects \_\_\_\_ the \_\_\_\_\_  
by moving the device along the surface of a desk.

## ☒ Modem

- A device that \_\_\_\_\_ and \_\_\_\_\_ data to and from computers over telephone  
lines or cables.

## ☒ Output Devices

- Devices that display, print, or transmit the \_\_\_\_\_ of \_\_\_\_\_ from the  
computer's memory.

## ☒ Monitor

- Display device that \_\_\_\_\_ by converting electrical signals from the  
computer into points of colored light on the screen.

## ☒ Printer

- Output device that \_\_\_\_\_ text or graphical images \_\_\_\_\_.

## ☒ Speakers

- Output devices that \_\_\_\_\_ from the computer's sound card \_\_\_\_\_  
\_\_\_\_\_ music, narration, or \_\_\_\_\_ effects.

## ☒ Storage Devices

- Used to \_\_\_\_\_ the power to the computer is turned \_\_\_\_\_.

### ➤ Medium/media

- Place or Disk where data is stored. (Hard Disk, USB Drive, iPod, Floppy Disk, Ect.)

## ☒ Magnetic Storage

- Recording of data onto disks or tape by magnetizing particles of an oxide based surface coating.
- A \_\_\_\_\_ type of storage that can be modified.
- Magnets, dust, liquid, etc. can damage your data

## ☒ Digital Audio Tape

- Method of storing \_\_\_\_\_.

## ☒ Hard Disk/Drive

- The \_\_\_\_\_ for a computer

- Usually mounted inside the computer's system unit and connected to the Motherboard.
- Can store billions of characters of data.
  - Stated in forms of bytes:
    - Megabytes, Gigabytes, \_\_\_\_\_, Ext.

#### ☒ Floppy Disk

- Round piece of flexible Mylar plastic covered with a thin layer of magnetic oxide and sealed inside a protective covering.
- May be referred to as a "floppy"
- 3½ disk capacity is \_\_\_\_\_ MB or 1,440,000 bytes

#### ☒ Zip Disk

- Floppy disk technology manufactured by Iomega.
  - Available in \_\_\_\_\_ MB and \_\_\_\_\_ MB versions

#### ☒ Optical Storage

- Means of recording data as light and dark spots on CD, DVD, or Blu-ray Discs (BD).
- Reading is done through a low-power \_\_\_\_\_ light.
  - Pits
    - Dark spots
  - Lands
    - Lighter, non-spotted surface areas

#### ☒ CD Drives

- Compact Disc Drives
- A storage \_\_\_\_\_ that can \_\_\_\_\_ and \_\_\_\_\_ data, from and to \_\_\_\_\_.
- Similar to a CD-ROM, but has the ability to write to CD.

#### ☒ DVD Drives

- " \_\_\_\_\_ Disks – Read Only Memory" (4 Gb)
- Reads data from CD's (audio and data) and DVD's (data or movie)
- Can be used to write data to a disk if DVD-RW.

#### ☒ BD Drives

- \_\_\_\_\_ - \_\_\_\_\_ Disc Drives
- Today you can purchase BD-RE which is Blu-ray Disc Recordable Erasable.
- Blu-ray drives have all the functions of CD and DVD drives, but can store \_\_\_\_\_ \_\_\_\_\_.

### ☐ Flash Memory and Storage

- Flash memory is \_\_\_\_\_ non-volatile computer \_\_\_\_\_ technology.
- Flash devices can be electrically erased and reprogrammed.

### ☐ USB, Jump or Flash Drives

- Replaced Zip and Floppy Disks
- Because:
  - \_\_\_\_\_—size of a key
  - \_\_\_\_\_-no bulky cables to hook up—inserts into USB port
  - \_\_\_\_\_—1 GB for about \$6

### ☐ Cloud Storage

- When storing data in the cloud or on the internet, the data is actually \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ organizations \_\_\_\_\_.