

What is a Computer?

-Electronic machine that accepts data, process it, provides a result (information) and stores the result.

Filenames for Mac:

- File naming: Up to 255
- Avoid using a Forward Slash and period and Colons
- Avoid using spaces in names if you plan on posting it to the web.

A Little History on Computers:

1800's- **Charles Babbage**-(Father of computing) Analytical Engine
(Picture)

ENIAC-1st Electronic Computer (1946) (Picture)
(**E**lectrical **N**umerical **I**ntegrator **A**nd **C**alculator)

1970's - Era of Microprocessors

Intel Corporation put an entire CPU **Central processing unit**
(Picture) on a single chip.

1975 - The 1st Microcomputer was born- **ALTAIR** Not very
reliable or efficient (Picture)

1975 - **Gates and Paul Allen** – Form MS (Picture of both)

1977 – Became foundation for the APPLE Corporation.

Steve Wozniak and Steve Jobs built 1st workable
Microcomputer. (Picture of both)

Their first GUI (**Graphical User Interface** or Icons) System
computer was the **LISA**(Picture)

1981 – IBM Introduced their first Microcomputer

1984 - The Apple **Macintosh** debuts in.

Apple = **education**

IBM = **Business**

- 1991** **Tim Berners-Lee** develops the World Wide Web. CERN releases the first Web server.
W3C (**World Wide Web Consortium**) Sets standards for WWW....
Current standard is HTML5—**Hyper Text Markup Language**
- 1994** Netscape 1st **Web Browser** released—opens up all the doors for easy browsing
- 1999**: The term **Wi-Fi** becomes part of the computing language and users begin connecting to the Internet without wires.
- 2004**: **Mozilla's Firefox** Microsoft's Internet Explorer, the dominant Web browsers. Facebook, a social networking site, launches.
- 2005**: **YouTube**, a video sharing service, is founded.
- 2006**: Apple introduces the **MacBook Pro**, its first Intel-based apple
- 2007**: The **iPhone** brings many computer functions to the smartphone.

2010: Apple the iPad,.

2011: Google releases the Chromebook,

2015: Apple releases the Apple Watch.

Cloud Computing: using a network of remote servers hosted on the Internet to store, manage, and process data, rather than a local server or a personal computer.
..... GOOGLE, Adobe, Microsoft etc.

Advantages: Greener, Reduced support and hardware, anywhere anytime, faster

Disadvantages: Security, Need for reliable Internet service

About Computers

Hardware-Anything that you can physically touch.

Examples: mouse monitor keyboard printer

Input Devices: Gets things into the computer

Mouse, keyboard, touch screen, Flash Drive, SD Card

Output Device:

Printers: CMYK (Cyan, Magenta, Yellow Black)

Monitors: RGB (Red Green Blue)

Software- term for a computers program

OS (Operating System) Windows 11, macOS Ventura

Application Software: Adobe Suite, Microsoft Office,

Ram- **Random Access Memory-** Is gone when power is disrupted.
Volatile Memory

ROM- **Read Only Memory-** Long Term Non-Volatile Memory

Mrs. Thies
Digital Design

Sequential Device- **Cassette Tape, film strip, VHS**—Things are in order.
Another???

Direct Access Storage Device- Things are not in order, can be retrieved in an instance.

Example: **Floppy disk, flash drive** Another???

ASCII Code: **Stands for American Standard Code for Information Interchange**
Series of 1's and 0's—How computer understands 8 bits Binary Code

Memory:

8 bit= 1 byte

1,000 bytes=1 Kilobyte

1,000,000 bytes= 1 Megabyte

1,000,000,000= 1 Gigabyte

1,000,000,000,000=1 Terabyte