Computer Terminology 8th Grade Computer Class



Parts of a Computer Input Units- any device that can feed information into the computer.

Ex. Keyboard, Mouse, touch screen monitor, Microphone, Scanner, Web Cam





Output Units Decode information Examples. Monitor, Printer, Speakers, Projector

LCD: LIQUID CRYSTAL DISPLAY





Central Processing Unit (CPU)-

The "brain" of a computer, which reads programs and changes each program's instructions into actions .





Memory or Storage Units-

RAM- (Random Access Memory) •Remembers what you tell the computer

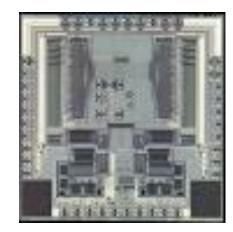
to do while the computer is on.

- ROM- (Read Only Memory)
- Holds program instructions after power off
- Instruction set for startup



Integrated Circuit (IC)

 Is a tiny piece of silicon that contains thousands of electrical circuits. (A circuit is a path over which electric current or pulses flow.)





How the Microprocessor Works

1. Fetch– Get the instruction from the computer's memory or storage device 2. Decode – Figures out what the instruction is 3. Execute- Carries out the instruction



Binary Code

(1 = ON, 0 = off) • System of 1's and O's used to represent information

Virus

 An illegally planted program that reproduces itself by secretly attaching to other programs and carrying out unwanted and often damaging operations.



Virtual Reality (VR) Is a multimedia application that uses 3–D graphics to create a realistic simulation



Hardware

 The physical part of a computer system Examples: Keyboard, disk drive.
 Monitor and the internal electronics



Software

 System, utility, or application, programs used by a computer to perform desired tasks

Artificial Intelligence

 Is the process computers use to solve problems and make decisions that are commonly made by humans.



Wiki

• Allows the easy creation and editing of collaborative websites.



WIKIPEDIA The Free Encyclopedia

Social Networking

 Focuses on building online communities of people who share interests and/or activities

EX:





WEB 2.0

• The second generation of the internet. Instead of just a place to find information, it is also used for social networking (talking to friends)

Binary digit = bit A group of 8 bits=byte A group of 1024 bytes=kilobyte A group of 1024 kilobytes = megabyte A group of 1024 megabytes = GIGABYTE A group of 1024 Gigabytes= Terabyte

A group of 1024 Terabyte= Petabyte A group of 1024 Petabyte= Exabyte

It would take approximately 1 trillion years to download an Exabyte file from the Internet using high-power broadband

A group of 1024 Exabyte= Zettabyte

A Zettabyte is the equivalent of:

- -The total storage capacity of 75 billion 16 GB iPads
- -All the information in all the academic libraries in the US-times half a million

Internet Service providers

• Are companies that allow you to access the Internet for a FEE (\$)

Search Engines

Are programs that have been created to make it easier to search the Internet.
 Examples:

Hypertext Markup Language (HTML)

• (HTML)- is a special language used on the World Wide Web that allows computers to talk to one another.

Network

 Uses a central computer that stores information from many smaller computers

Programming Language

 Translates information entering the computer into a form that it can understand. EX. C++, JAVA and PERL

The Internet

•HTTP (Hypertext Transfer Protocol): is a digital protocol for distributed, collaborative, information. It is the foundation of data communication for the World Wide Web.

•HTTPS (Hypertext Transfer Protocol Secure):is a more secure version HTTP to provide encrypted communication and secure identification of a network web server. HTTPS connections are often used for payment transactions on the World Wide Web and for sensitive transactions in corporate information systems.

The Internet

• World Wide Web: abbreviated as WWW and commonly known as the Web, is a system of interlinked hypertext documents accessed via the Internet. With a web browser, one can view web pages that may contain text, images, videos, and other multimedia and navigate between them via hyperlinks.

• URL (Universal Resource Locator) The best-

known example of the use of URLs is for the *addresses of web* pages on the World Wide Web, such as http://www.example.com/.

The Trouble Shooting Process

- Identify the problem
- Establish a hypothesis or theory of cause
- Test the theory to determine cause
- Establish plan to fix problem
- Verify full system functionality
- Document findings, actions

outcomes