

A World of Technology

- **Digital literacy** involves having a current knowledge and understanding of computers, mobile devices, the Internet, and related technologies
- Computer- is an electronic device, operating under the control of instructions stored in its own memory
 - o Accepts data (input), processes, produces info (output)
 - o Laptop- thin, light weight mobile computer with a screen in its lid and keyboard in the base
 - o Tablet- mobile computer with a touch screen
 - See touch screen gestures
 - Slate- does not contain keyboard
 - o Desktop- personal computer designed to be in a stationary location where all components fit on/under desktop or table
 - Some screens for desktops support touch
 - o Server- computer dedicated to providing one or more services to other computers or devices on a network
- Mobile and Gaming Devices
 - o Mobile device- computer small enough to fit in your hand
 - Smart phone-internet capable phone that usually also includes other apps (calendar, address book, calculator, etc.)
 - Communicate with other smart phones: text message, picture message, video message,
 - Digital camera- allows you to take and store photos
 - Portable media player- mobile device where you can store, organize and play digital media
 - Music, photos, videos, etc.
 - E-book reader- mobile device used for reading
 - o Gaming Devices

- Gaming console- designed for single or multiplayer video games
- Data and Information
 - o Computers process data (input), into information (output) and store data for future use
 - o Input device- hardware component that allows you to enter data and instructions into a computer
 - Keyboard- contains keys you press to enter data and instructions into a computer or mobile device
 - Pointing device- is an input device that allows a user to control a small symbol on the screen called a pointer
 - Mouse, touchpad, microphone
 - Some mobile devices and computers enable you to speak data instructions using voice input and to capture live full-motion images using video input
 - Scanner- A scanner is a light-sensing input device that converts printed text and images into a form the computer can process
 - o Output device- any hardware component that conveys information from a computer or mobile device to one or more people
 - Printer- output device that produces text and graphics on a physical medium such as paper
 - Display- an output device that visually conveys text, graphics, and video information
 - Speakers- allow you to hear audio such as music, voice, and other sounds
 - Earbuds
 - Headphones
 - o Memory and Storage
 - Memory- consists of electronic components that store instructions waiting to be executed and the data needed by those instructions
 - Storage- holds data, instructions and info for future use
 - Storage media- where a computer keeps data, instructions, and information

- Storage device- records (writes) and/or retrieves (reads) items to and from storage media
 - EX: a DVD drive (storage device) accepts a DVD (storage media)
 - Hard disk- storage device that contains one or more inflexible, circular platters that use magnetic particles to store data, instructions and info
 - External hard disks are portable
 - Solid State Drives (SSD)- typically uses flash memory to store data, instructions and info.
 - USB Flash Drives- portable flash memory storage device that you plug into a USB port
 - Memory Card- removable flash memory, very small
 - Optical discs- flat round metal disc (DVD)
 - Cloud storage- storage via the internet
- The Internet
 - o Internet- a worldwide collection of networks that connects millions of businesses, government agencies, educational institutions, and individuals
 - The world wide web (web)- a global library of information available to anyone connected to the Internet
 - Search info
 - Communication
 - Share info
 - Access news
 - The **web** consists of a worldwide collection of electronic documents, each of which is called a **webpage**
 - A **website** is a collection of related webpages
 - webpages
 - A **web server** is a computer that delivers requested webpages to your computer