# Networks
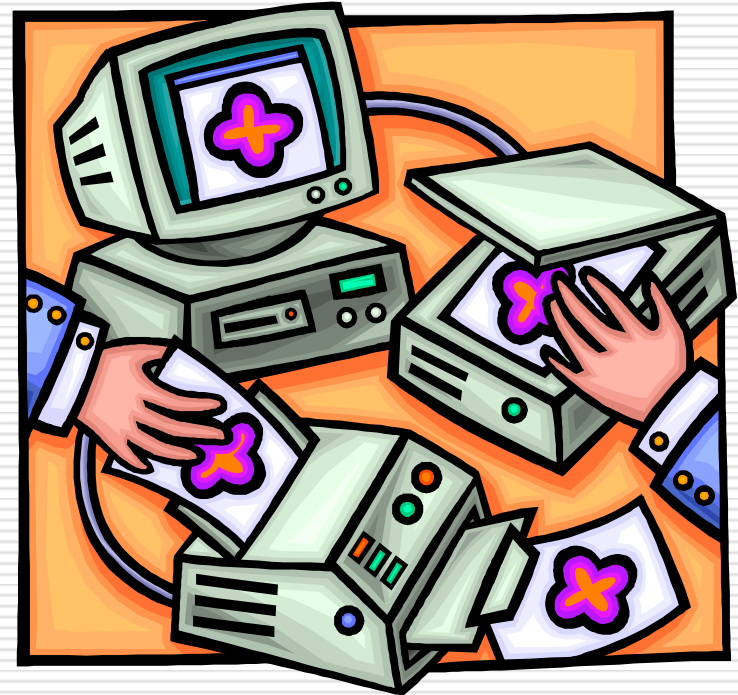
## Computer Technology
## Day 17

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Pleasant Grove High School
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# Network

☐ Two or more computers and other devices (printers or scanners) that are connected, for the purpose of sharing data and programs

# Network Terms

- ☐ File Server
  - ■ A computer connected to a network that distributes resources to other users
    - ☐ Contains the software to manage and process files for other network users

- ☐ Host Computer
  - ■ Refers to any computer the provides services to network users
    - ☐ Used more commonly with the Internet

# Network Terms (continued)

☐ Workstation
- ■ Refers to a personal computer connected to a network
  - ☐ Example
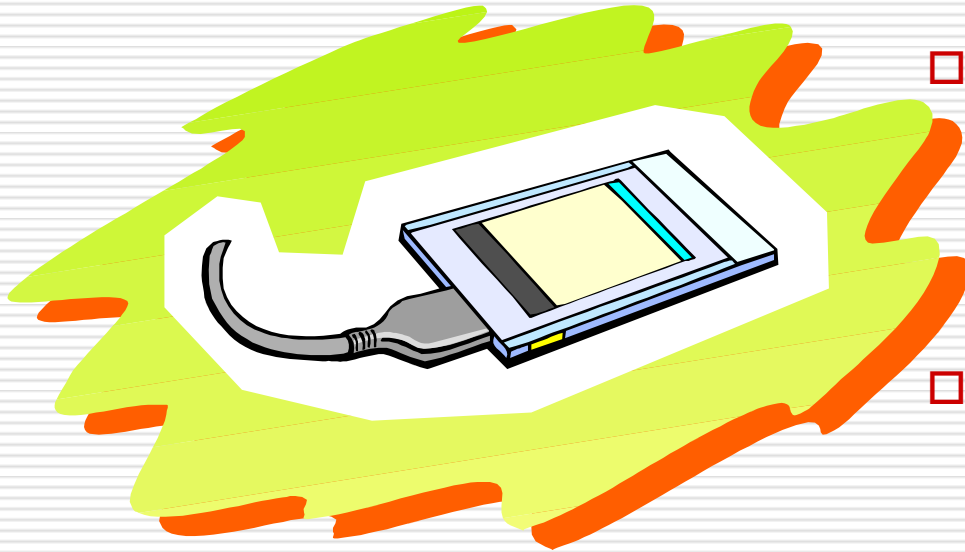    - ■ Each computer in the classroom

☐ Client
- ■ Refers to the software on a computer that allows the user to access the server
  - ☐ Example
    - ■ Novell Netware

# Network Interface Card (NIC)

- ☐ Small circuit board that coverts the digital signals from a computer into signals that can travel over a network
- ☐ Desktop Computers have the NIC inside the case with a jack on the outside for the network cable
  - ■ Example
    - ☐ Our classroom computers
- ☐ Notebook or Laptop Computers have a special card that fits into a slot or opening in the case
  - ■ Example
    - ☐ Picture on this slide is the NIC for a Notebook or Laptop

# Network Connections Devices

- ☐ Modem
  - ■ A device that sends and receives data to and from computers over telephone lines.
- ☐ Hubs
  - ■ A device that connects several components of a network
- ☐ Routers
  - ■ A device that connects at least two networks
- ☐ Gateway
  - ■ A device that serves as an entrance to another network
- ☐ All of these can be used alone or combination

# Local Area Network (LAN)



- ☐ Computer network that is located within a limited geographical area, such as a school or small business
  - ■ Example
    - ☐ The PGHS Network

# Wide Area Network (WAN)

- ☐ Interconnected group of computers and peripherals that cover a large geographical area, such as multiple buildings
  - ■ Examples
    - ☐ The Alpine School District Network
    - ☐ The Internet

# IP Addresses

- A unique identifying number assigned to each computer connected to the internet
  - Example – 204.127.102.001
  - Each computer on a network should have its own separate IP Address or conflicts will occur when there are duplicate addresses

# Resources

Parsons, June Jamrich, and Dan Oja. <u>Computer Concepts</u>. Boston: Course Technology - Thompson Learning, 2002.