

Networks, Internet, & Digital Citizenship Packet



Computer Technology

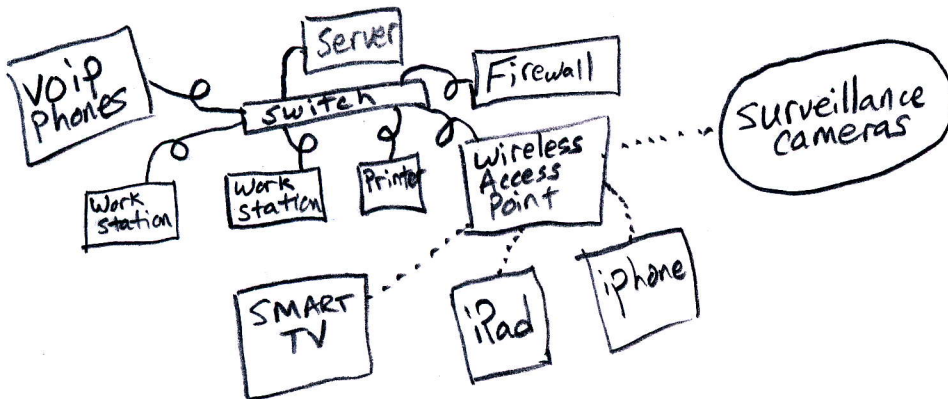
Name: _____

Network Definition: a series of points or nodes interconnected by communication paths.

Draw an example of a network.

#1 (work)

#2 (home)



List the different types of networks and the type of data they transmit.

Local Area Network: LAN - shared information within a company ex: herman

Wide Area Network: WAN - * Bigger Group of LAN's ex: Jordan district

WLAN: Wireless Local Area Network ex: wireless herman

InterNet: IP Network - Any info = text, databases, movies, songs, etc.
ex: www.

Define:

1. Client: A computer that requests services (login, web, etc)
2. Server: A beefed up computer that hosts services like login, webpages, security, database, etc.
3. Firewall: Software or hardware used to keep unwelcome people OUT!
4. Network speed: Typically referred to as Bandwidth, or the amount of data that can travel through your network in one second - 10 Megabit, 100 Megabit, 1000 Megabit or Gigabit...
5. Gateways: A way to share information between Applications & Services -
(ex): my Photos on Facebook ↔ Twitter feed -

6. PSN: Not Play Station Network! it is a Network of Government Networks for sharing info between govt entities.
7. DNS: Dynamic Naming Service - once your computer logs into the network you get a New Address from the available "pool."
8. IP Address: Internet Protocol Address - every computer on the internet has a unique address so other web servers know where to send the data.
9. WAN: Wide Area Network - larger geographically than a LAN, so... like Two Buildings in Jordan District instead of ONE.
10. LAN: Local Area Network - Computers that are close to each other geographically - in the same school, for example.
11. VPN: Virtual Private Network - secure access to a network, even though you aren't there physically - like a Salesman on the Road logs into the Home office to check on projects.

Describe possible security issues while using a network and the role of a firewall.

Someone could steal information, like passwords, usernames, etc.
Someone could steal banking info -

The goal of a firewall is to keep intruders out and to "hide" valuable info from prying eyes & keyboards -

List a few troubleshooting options when your computer fails to connect to a network.

- #1 - Always Restart the Computer - it clears out software errors and resets the RAM.
- #2 - Unplug & Replug in Network Cables - check for Lights that show Linkage -
- #3 - Call the Helpdesk folks!

Internet

Define

1. Internet - An "Inter-connected Network" of Networks around the world. Typically sharing resources through web pages.
2. Browser Software that lets you look at (browse) web pages -
 - a. List a few examples of web browsers. Firefox, Chrome, Safari, Internet Explorer,
3. Domain The easy way to remember opera, tinyweb, icab...
The Address of a website - like Toyota.com instead of 103.223.98.47
4. Hyperlink words or image on a webpage that take you (Link) to another webpage.
5. Plugins Small Applications that run inside your browser (like Flash Player)

List the steps to create a bookmark or favorite in a browser. It's different for each browser, but typically there is either an image like a bookmark, or star, or smiley face you click on to Add it to Favorites..

List the steps to view the browser history.
Search the Menus for your history - in Chrome it is just a main menu...

List the steps to set the homepage of a browser.
Typically you need to find the Preferences or Settings - and the setting for homepage...

Describe the difference between download and upload.
Download: you copy something to your computer from a webHost
upload: you share or copy something FROM your computer to a webHost

Internet Collaboration Assignment:

Students will split into groups of two to four for this assignment. Student must log into their Google Drive Account. Each group will assign a group leader to create and share a Google Spreadsheet, naming it Automobiles. The spreadsheet must also be shared with the teacher.

Select cells A1:G1 and merge. Enter the title Automobile Ranking Review.
Insert the following headings in row 3.

Student Name	Category Bodystyle	Year	Rank	Make	Model	Low MSRP Price	City MPG	Hwy MPG	Overall Ranking
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Using the site usnews.rankingsandreviews.com, each student must contribute five automobiles to the spreadsheet. You cannot do the same automobile as someone else.

Internet Searches

Perform an advanced internet search. Search for a picture of a mountain. Filter for large images, only those labeled for reuse.

Describe signs to determine the validity of a website.
- Credible web Address or Domain
- Easily Sourced (has an Author, Date, Title, etc).
- makes sense.

Define:
1. Creative commons: A Copyright Category of Sharing - Anyone can use as long as you give credit.
2. All rights reserved: A Copyright Category of NOT SHARING! No one can use unless copyright holder gives permission -

Digital Citizenship

List uses of the internet. Learn, Share Knowledge, Waste Time, Play Games, communicate, watch movies! Shop at Alli Babbar, find jokes, share family photos, find old girlfriends, Research, Read, write, Design, Bank,

With more technology becoming integrated in both our personal and professional lives, we have access to great tools. Complete an internet search on the negative impact that technology has on society. Report your finding below.

Describe our social responsibility when using the internet.

Define

1. Spam: Unwanted & Un-Asked for emails.
2. Flaming: Intentionally causing Arguments online.
3. Cyber-bullying: harassment online via texts, facebook, twitter, etc.
4. Libel: written un-truths that causes injury
5. Slander: Spoken un-truths that causes injury
6. Censorship/Filtering: Cutting out specific parts of online tools, info.
7. Piracy: Downloading Movies, Music, software, etc. without paying -
- 8.

List three examples of intellectual property that may be copyrighted.

Photos I've taken, Movies I've created, Songs I've written, Books or Essays I write,

Describe copyright. How do you obtain a copyright?

The Creator's ~~or~~ Right to decide what his or her creations will be used for -
An implicit copyright is created when you create something. A legal copyright is created when you apply through the Copyright office -