Name: Lesson 1: Using the Internet and the World Wide Web
Internet vs. World Wide Web The internet is a very large of networks. Networks consist of that store information accessed by various clients. Essentially hardware machines and
The is a system of tools and services that enable us to access the information on the Internet. Web browsers is a tool that retrieves the using the Internet are a key part of the web which connects data resources together, enabling users to "browse" from page to page.
Other Services The internet can also be used for the following services: Instant Messaging FTP (file upload or download) Live streaming Home Security (Apps)
 Cloud The advantages of the cloud are: Data is stored on servers accessed from any location with an are in a central location, accessible regardless of their current Internet connection. Enables people around the world to on projects without having to travel. Need access rights to the and a browser. Some common cloud storage services include, Dropbox, Microsoft Cloud, and Apple iCloud.
 Connecting to the Internet 6 elements necessary to connect to the Internet: A device An operating system — the software that enables you to with your device. Windows and Apple are the most common TCP/IP (Transmission Control Protocol/Internet Protocol) — allows your device to with other devices on the Internet – generally in place in the device when you purchase it. Client software — on your device, such as your browser, e-mail program or an "app" on your phone or tablet

Types of Connections

your device and the Internet.

servers you want to visit.

• Dial-up access - The _____ attached to the computer uses a standard telephone line to connect to the Internet.

An Internet Service Provider (ISP) — a free or fee-based service that provides the ______ between

An Internet address — provided for your ____ by your ISP. You also need addresses for the Web site

- Cable A cable company that provides TV service also provides _____ connection on the cable, instead of using a phone line.
- Digital Subscriber Line (DSL) A high-speed Internet connection using regular _____ telephone lines.
- Broadband satellite A high-speed connection to the Internet via ______.

• 3G/4G - High-speed wireless connections for	, tablets and other devices.
 Wireless Fidelity (Wi-Fi) - A network uses sign 	
computers and devices.	
 FiOS (Fiber-Optic Service) broadband - The newest 	type of Internet connection. It connects to the Inter-
net using light pulses over a network.	
<u>URL – DNS – IP address</u>	
- www.google.com	
IP Address	
DNS – converts IP address to a	
· · · · · · · · · · · · · · · · · · ·	
Web Addresses	2 1 41 41 41 11 11 11 14 41 41
• Server name: name given to a server (usually "' servers on the same network	can be anything that helps distinguish it from other
 Domain name: the name to a specific we 	h cita - ucually a common nama lika "Googla"
"IBM" "Nike"	b site – usuany a common name fixe. Google
• Top level domain: the of a URL that tends to	to identify what "type" of web site it is: edu, gov,
com, etc	
All 3 parts together create a "" address just like a stre	eet address
Top level domains	
.com organizations, businesses or company si	tes
.eduinstitutions	
.org; originally clubs, associations and non-p	profit groups
.mil - U.S.	
.gov - U.S. civilian	
.net sites, including ISPs	
.jp - Japan	
.us - United States	
.uk - United Kingdom	
.de - Germany	
.ch - Switzerland	
.ca - Canada	
Key Web Technologies	1. 6
Hypertext Markup Language (HTML) — the code u	sed to format web pages and create
between documents.	for accounts on the Web Alex celled
• Uniform Resource Locators (URLs) — the unique _	for resources on the web. Also called
Uniform Resource Identifiers (URIs).	
 Hypertext Transfer Protocol (HTTP) — the tion online. 	rules for sending and receiving informa-
tion online.	
Web Browsers	
Enables your to retrieve and display Web pages Examples are:, Firefox, Safari, Internet Explorer,	
Not all browsers render the HTML page formatting with abs	solute
Navigating the Web - Hyperlinks	
Hyperlinks are connections to other related Web pa	ages, programmed into the text on the page.
They can also link:	
• To another location a page.	

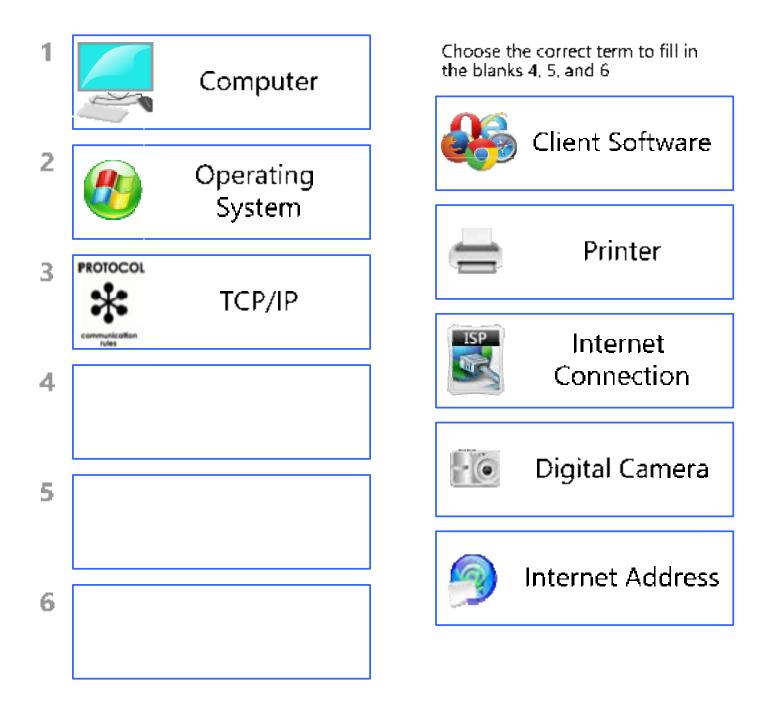
	To another within the same site To a completely site.
Identify	ving Hyperlinks
• (Cursor changes to the shape of a hand when you it over a hyperlink
	Sometimes the hyperlink text will change .
•	text is a common convention for hyperlinks on older pages
• (Once clicked, the hyperlink text pointing to that page will change to a different color, indicating that the
	page has already been
Other U	Jses for Links
• I	Download a to your computer.
	Open an excellent and send a message pre-addressed to a person or service department

Open an e-____ client and send a message pre-addressed to a person or service department
 Access ____ from search results when you search for information.
 Write the letter of the correct definition in the spaces provided next to the terms.

Term	Definition
1. Dial-up access	a) Protocol software used to communicate with the Internet and built into all major operating systems
2. Cable	b) Connecting to the Internet via satellite
3. DSL	c) Internet service provided by a cable company
4. Broadband satellite	d) Connecting to the Internet using a modem and a standard telephone line
5. 3G/4G	e) A network that uses radio signals to provide Internet connections to
6. Wi-Fi	wireless computers and devices
7. Computer	f) A desktop computer, mobile phone or tablet
8. Operating system	g) A technology that provides high-speed Internet connections using regular copper telephone lines
9. TCP/IP	h) A number that uniquely identifies each computer
10. Client software	 i) Software that communicates with a computer's hardware (for example, Windows, Macintosh, Linux)
11. Internet connection	Timacus, macintosti, Emax,
12. Internet address	j) A Web browser or other application used to access and display Web sites on a computer (for example, Chrome, Internet Explorer)
13. FiOS broadband	k) Directly connecting to an Internet Service Provider (ISP)
	High-speed wireless connection for smartphones and other devices
	m) Connecting to the Internet using light pulses over a fiber-optic cable network

In this activity, you will identify the components required to connect to the Internet.

Six elements are required for a computer to connect to the Internet. The user generally acquires the first three by obtaining a computer. Fill in the missing elements.



Mark the correct response for each question. 1. What is the main component of the Internet? Answer Choice a. Web browsers b. Servers c. Hyperlinks d. Software Applications 2. An Internet Service Provider (ISP) is: **Answer Choice** a. a Web page. b. a Web browser. c. a company that provides access to the Internet. d. the action that happens when you click on a hyperlink. 3. Which protocol do many browsers assume when entering a URL in the address field? **Answer Choice** a. .net b. .com c. ftp://

4. Which technology allows both a URL and an IP address to refer to the same site?

Answer Choice

Answer Choice

b. GUI

d. http://

D. GO1

c. DNS

d. HTML

5. Which type of cable uses light pulses to send data?

a. DSL

b. 3G/4G

c. Broadband

d. Fiber-optic cable

6. Which connection type is a wireless method of sending information using radio waves?

Answer Choice

a. Wi-Fi

b. Cable

c. Broadband

d. Fiber-optic cable

7. What is a Web browser?

Answer Choice

a. An Internet Service Provider (ISP)

b. A language that is used to create Web pages

c. A graphical user interface (GUI) Web page editor

d. A software application that accesses and displays Web pages

8. What type of address uses a number that uniquely identifies each computer? a. IP address b. Home address c. E-mail address d. Computer address	Answer Choice
9. What is an easy-to-remember address for calling a Web page? a. ISP b. URL c. DSL d. TCP/IP	Answer Choice
 10. What uses HTML hypertext links that users can click to access different locations or informat a. Web page b. Domain name c. Client program d. Operating system 	ion? Answer Choice
11. Which protocol allows you to upload and download files? a. http:// b. mailto:// c. ftp:// d. smtp://	Answer Choice
12. The Internet includes: a. The World Wide Web b. Newsgroups c. A protocol used for landline phones d. All of the above e. A and B only	Answer Choice
13. True or false: People used to use modems to connect to the internet, but they're not used in ar devices any more.a. Trueb. False	ny Answer Choice
 14. Which of the following is part of a Web site address on the World Wide Web? a. Domain name b. Browser window c. Direction d. ZIP code 	Answer Choice
15. All devices that connect to the World Wide Web require: a. Browsers b. Wi-Fi capability c. Touchscreens d. Chat rooms	Answer Choice