Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class \_\_\_\_\_\_\_

Using the Internet & Searching Online

Computer Technology

**Part 1: Using the Internet**

1. Internet Requirements
	* Internet Service Provider (ISP) – The company that provides you with Internet access. Usually a monthly subscription. We don’t all have to have the same ISP to communicate over the Internet
		+ Examples:
	* Web Browser – Software application used to access the Internet.
		+ Examples:
	* Search Engine – A program that searches the Web for keywords for you and returns relevant results.
		+ Examples:
2. URL – U\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ R\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ L\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	* A URL is broken into four basic parts:
		+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - tells the web browser how to read the pages. The protocol is followed by :// (Some examples are: http, https, ftp)
		+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - the Web server or host computer where a web page is located. (Example: <http://www.mcdonalds.com> ([www.mcdonalds](http://www.mcdonalds) is the host or server name).
		+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - this part of the URL tells users what type of \_\_\_\_\_\_\_\_\_\_ uses the address. It can consist of a top-level and a sub-domain level. A domain name must be purchased in order to use it.

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| **Common Domain Name Extensions** |
| **Extension** | **Description** |
|  | Commercial or for-profit business |
|  | Educational institutions |
|  | U.S. government |
|  | Networks |
|  | Organization |
|  | Countries |
|  | Informational sites |

* + - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - Sometimes the domain name will be followed by a forward slash (/). This lets you know you are going to a different area or page (folder or file) on that web site.
	+ Label each piece of the following URL:

http://www.microsoft.com/resources/about-the-web.html

1. An Internet cookie is a piece of data placed on your machine by a Web server. Your computer uses cookies to \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ information like when you fill out a form on the Internet with your name, address and other information. Some cookies store \_\_\_\_\_\_\_\_\_ to restricted sites and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ user browsing habits. Cookies only keep track of data you provide. They cannot search your hard drive to gather additional personal data. Many retailers and search engines use cookies to track your \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ preferences for marketing purposes.
2. What are two indications of a secure site?
	* Look at the URL. On a secure site, http:// will change to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	* Look for a \_\_\_\_\_\_\_\_\_\_\_ icon in the browser window, not on the web page itself. Click it to check the site’s SSL certificate. A secure site will have a SSL issued by a trustworthy company and it will not be expired.
3. What is a web browser?
	* A tool for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the Internet.
	* Multimedia interface allowing integration of text, graphics, audio and video.
	* Since mid 2011, the most used browsers are: (in order of popularity)
		+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (68% in 2015)
		+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (19.1% in 2015)
		+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (6.3% in 2015)
		+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (3.7% in 2015)
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_feature in web browsers: This is a folder in which your browser keeps track of the most recent URLs you have visited during a certain number of days. Steps to accessing the History feature varies between browsers, but pressing Ctrl + H works in most browsers.
5. \_\_\_\_\_\_\_\_\_\_\_\_\_ or Favorites can be used to save links to useful or frequently visited resources. The way to add Bookmarks or Favorites varies across browsers, but pressing Ctrl+D while viewing the webpage you’d like to Bookmark works on the most common browsers. If the Bookmarks bar is not displayed in your browser window, press \_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_ + \_\_\_\_.

**Part 2: Searching the Web Effectively**

1. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ indexes information in Web pages to present you with a list of relevant Web pages when you run a search. Search engines send Web crawlers or spiders out to the World Wide Web to read the contents of Web pages. Web crawlers also evaluate the quality of the information found as well as the reputation of the Web page. The crawlers then quickly update an index that allows the search engine to present you with a list of results pertaining to your search.
2. Currently, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the world’s most popular search engine. However, there are other search engines available to use. Other search engines include:
3. Metasearch Engines - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Try a variety of search engines. Different search engines and directories give varying results, depending on how the search is created and how search engine catalogs the Web sites. In your own words, explain why you may get different results from different search engines.

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| **Sample Search Engines** |
| **Search Engine Name** | **Description** |
| Ask | Type a question the way you would normally ask it |
| Dogpile | Searches by accessing several search engines (meta search engine) |
| Google | Ranks the quality of sites based on the quality of sites that link to it. |
| HotBot | Allows you to define search, narrow the search by time or by domain |
| MetaCrawler | Search for a word or a phrase |
| Yippy | Clusters search results so that you can target a particular topic and hot have to scroll through pages and pages of information |
| WolframAlpha | Searches databases. Results are more direct and avoid advertisements and other unnecessary information. |

\*\*Try this: When your teacher instructs you to, go to [www.wolframalpha.com](http://www.wolframalpha.com). Search the following:

1. Hot dog (notice the nutritional value)
2. University of Utah (what is the current enrollment of part-time students)
3. Superbowl (what date was Superbowl LXV held on)
4. American Fork High School (how many female students are enrolled)
5. Strategies for effective searching include
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Use the engines “Advanced Search” form
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Use descriptive phrases such as “meaning of” to avoid getting links to sites that are trying to sell you a product.
* Include year and place restrictions where applicable.
* Use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to refine or narrow down your search. Boolean operators are based on a simple yes or no ranking system.

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| **Boolean Operators** |
| **Operator** | **Function** |
|  | Locates pages that contain one or both of the keywords. OR produces more “hits” than AND. |
|  | Locates pages that contain the first keyword but not the keyword after the NOT operator. |
|  | Words similar to parentheses in mathematics. Items found in parentheses must be done first. |
|  | Search for exact sequences of words by enclosing the words in quotation marks. |
|  | Search engine locates only pages containing both keywords. |

\*\*Try this: When your teacher instructs you to, find sites for the searches below. Note the number of hits as you use different Boolean operators. # of results are shown above first result.

* + - 1. Dogs OR Cats # results = \_\_\_\_\_\_\_\_\_\_\_\_\_
			2. Dogs AND Cats # results = \_\_\_\_\_\_\_\_\_\_\_\_\_
			3. Baseball # results = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
			4. Baseball NOT rules # results = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
			5. American Fork High School (in this exact order) # results = \_\_\_\_\_\_\_\_\_\_\_

**Evaluating a Web Site**

1. Is all information found on the Internet accurate or reliable? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Address the following questions when trying to determine if the site is a reliable source of information.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Who is responsible for the contents? Are they an expert on the topic?
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Does this site cover the topic comprehensively or just superficially?
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ When was the site created and last updated?
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Are the organization’s biases clearly stated?
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Are the design elements easy to follow and understand?

\*\*Try this, when your teacher instructs you to, visit the following websites. These are hoax websites that look pretty legitimate. Don’t be fooled!

<http://zapatopi.net/afdb/> - Aluminum Foil Deflector Beanie

<http://www.thedogisland.com/> - Dog Island

<http://www.buydehydratedwater.com/> - Dehydrated Water

**Part 3: Safety Reminders**

1. Never give any \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to anyone you meet online.
2. Never meet up with anyone you don’t already know.
3. Don’t fill out any “fun” questionnaires that are forwarded to you, even if they’re from your friends. Remember anything can get \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. Make sure you know everyone on your buddy or contact lists. If you haven’t met the people face-to-face, they may not be who they \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
5. You do not have to answer e-mails or texts from people you don’t know. In fact, don’t!
6. There is no such thing as “\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_” on the Internet!
7. Be careful about posting pictures of yourself. Pictures with identifiers like where you go to school or where you work can act as shopping lists for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
8. Don’t send pictures of other people. Forwarding an embarrassing picture of someone else is a form of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
9. Don’t download content without your parent’s permission. Many sites have \_\_\_\_\_\_\_\_\_\_\_\_\_\_ that will damage your computer or inappropriate content that can damage your \_\_\_\_\_\_\_\_\_\_.
10. Never share your password with anyone but your parents.