FIRST STEP: WHAT ARE YOU SEARCHING FOR?

- Decide on a few nouns to use in your google search. For example, search penicillin history.
- Add more words to get more precise results. For example, search penicillin history world war II.
- Google leaves out many common words like "the," "a," and "but," when searching, unless they are important to the search, like the exact title of a book or article.
- "and" and "OR" are two common words that google won't ignore.

REFINE YOUR RESULTS

TRY A BOOLEAN SEARCH ("and"/"or" search)

- and: not case sensitive in google. 'And' tells google to retrieve results containing both or all of the search terms, thereby narrowing results.
- OR: must be capitalized. 'OR' tells google to retrieve results containing either or any of the search terms, thereby broadening results.

For example, try penicillin and world war II and hospitals, then try penicillin OR world war ii OR hospitals.

USE OPERATOR SYMBOLS

- Put quotes around search terms to find an exact phrase, like "It does not do to dwell on dreams and forget to live"
- Use to exclude certain results, especially useful when one of your search terms has multiple meanings, ie potter -harry.
- If you can't remember all the words in a phrase, use the * symbol as a placeholder, ex: "* hollow" harry potter
- Use two dots to search within a range, like abraham lincoln quotes 1864..1865, or GoPro \$50..\$90

USE ONLY THE MOST RELIABLE SOURCES

PRO HOMEWORK TIP: THE "SITE" OPERATOR

- You can limit your search results to only the most relevant and reliable websites with the "site" operator. If you are doing research for a science project, try limiting your search by adding *site:.edu* or *.gov* after your search terms. This will retrieve only results from .edu or .gov websites—preferable for scientific research. Using *site:.edu* is helpful for all types of academic research.
- You can also retrieve articles from specific sites this way, for example: site:nytimes.com
- To avoid search results from unrealiable sites, like wikipedia**, use the "-" sign after a search, like *Penicillin and wwII -wikipedia*

GOOGLE SCHOLAR

Use Google Scholar to **search open-source scholarly publications**. Not all results are for full-text articles, but many high-quality academic publications can be found here, AND it allows you to save your citations.

** wikipedia is not acceptable for use in research, because entries can be edited by members of the public-not necessarily experts.

FINALLY... "GRADUATE" FROM GOOGLE

USE ARTICLES FROM ONLINE RESEARCH DATABASES

This is **how you will be required to do research in college**. Get a head start by using online databases for free with your HCPL card. Visit <u>henricolibrary.org/online-services/research-databases</u> to get started!

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