



ELA Virtual Learning

Grade 8/Research

Tuesday, May 12, 2020



Lesson: 5/12/20

Objective/Learning Target:

I can use appropriate search techniques for my research.

WARM UP



On your notebook paper, copy the following table.

Words to search	The top result
Who	
The who	
A who	

WARM UP Answers

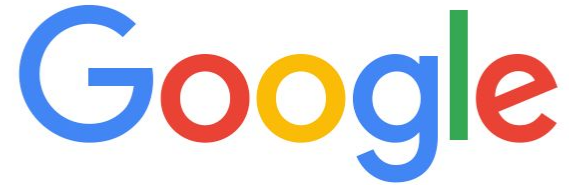
Are these similar to the results you found?

Words to search	The top result
Who	World Health Organization
The who	An old rock band
A who	A Dr. Seuss character

What can we learn from this? Your **search terms** matter!



LEARN

The Google logo is centered on the page, featuring its characteristic multi-colored letters: 'G' in blue, 'o' in red, 'o' in yellow, 'g' in blue, 'l' in green, and 'e' in red.

this is a search term

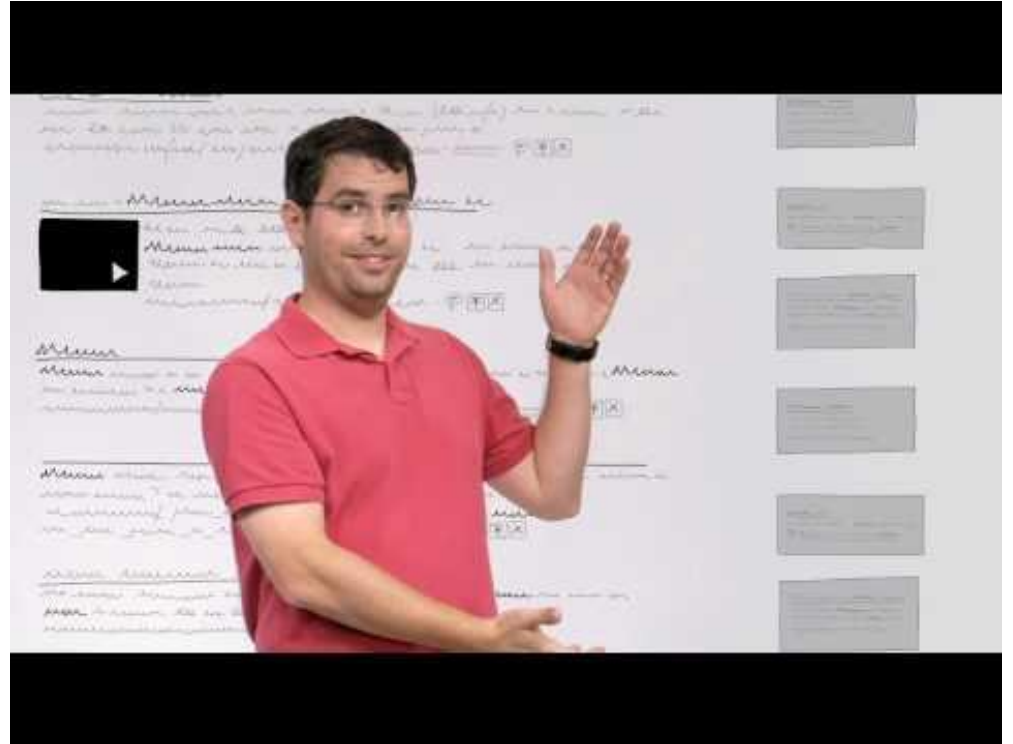


Google Search

I'm Feeling Lucky

LEARN

How Search Works: Matt Cutts Explains the Basics



LEARN



Steps for Creating a Search Strategy

1. Summarize your topic
2. Identify main concepts (keywords)
3. Identify synonyms, alternate words and/or related words
4. Try different combinations of keywords

Example: How does exposure to smokers affect children who have asthma?

LEARN

Example

Step 1: How does exposure to smokers affect children who have asthma?

Step 2: What are the **main concepts** or **keywords**?

.....smoking, children, asthma

Step 3: Think of **synonyms**, **alternate words** or/and **related words**.

.....secondhand smoke, smokers..... toddler, pediatric, child
allergies, breathing problems

Develop your search strategy using the terms above.

Step 4: **Mix and match terms.**


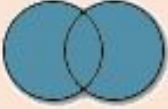

If one keyword doesn't work, try to vary your keywords with synonyms.

What Matters In My Search Query?

1	Every word matters. <i>Try searching for [who], [the who], and [a who]</i>
2	Order matters. <i>Try searching for [blue sky] and [sky blue]</i>
3	Capitalization does not matter. <i>Try searching for [barack obama] and [Barack Obama]</i>
4	Punctuation does not matter. <i>Try searching for [red, delicious% apple?] and [red delicious apple]</i>
*	There are some exceptions! \$ C# C++ Google+ but not: ¶ £ € © ® ÷ § % () or @ ? !

LEARN

Boolean operators help to narrow or broaden your search. The most useful are AND, OR, NOT which help to connect keywords or concepts.

Boolean Operator	Examples	Retrieves
AND ...finds records containing both terms. This <i>narrows</i> the search.	<ul style="list-style-type: none">• Picasso AND Mona Lisa• Alcohol AND anxiety	 Retrieves results containing all of the search terms.
OR ...finds records containing either one or both terms. This <i>broadens</i> the search. It can also be used to account for variant spellings.	<ul style="list-style-type: none">• Behavior OR Behaviour• Global warming OR greenhouse effect	 Retrieves results containing either one or both terms.
NOT ...finds records containing the first term, but <u>not</u> the second term. This <i>narrows</i> the search.	<ul style="list-style-type: none">• Fisheries NOT Alaska• Textile industry NOT cotton	 Excludes results containing the second term.

PRACTICE WITH INDEPENDENT WORK

Number your paper 1-5. For 1- 4, write the letter of the best answer. Then follow the directions on the slide for number 5.

1. What are the two most important keywords in the query, "What is the capital of Florida?"

- a) what, capital
- b) capital, of
- c) is, the
- d) capital, Florida



PRACTICE WITH INDEPENDENT WORK

2. If you accidentally type "chicken noodle soap" into a search engine, which results are most likely to show?

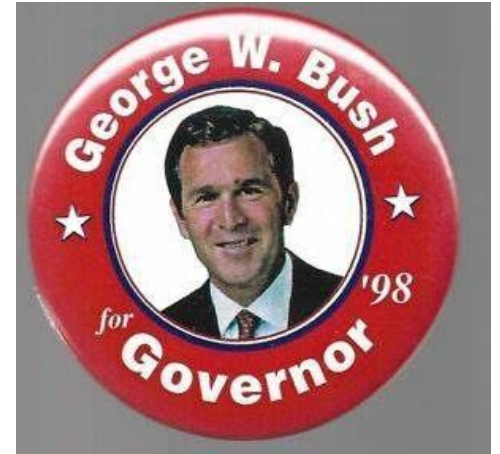
- a) Chicken scented hand soap
- b) Recipes for chicken noodle soup
- c) Tips for how to clean chickens
- d) How to cook with soap



Independent Practice Continued...

3. Which search term will return results about when George W. Bush was a Texas governor, but not when he was President?

- a) "George W. Bush" +Texas +President
- b) George W. Bush Texas not President
- c) "George W. Bush" +Texas -President
- d) George W. Bush -Texas -President



Independent Practice Continued...

4. What can you infer about a term that a search engine automatically completes for you?

- a) Many people have been looking it up recently
- b) The search engine is smarter than you
- c) Parrots told Siri to put it there.
- d) The search engine doesn't have clue what you are looking up



Independent Practice Continued...

5. Copy this table. Complete it with your own information.

Question	Your answer
Step 1: What is a question you would like to research?	
Step 2: What are the keywords in your question?	
Step 3: What are some synonyms or related word to your keywords?	
Step 4: What will you type in the search bar for your first attempt?	
Evaluate: Do you need to change it to get better results?	

Suggested Answers: PRACTICE WITH INDEPENDENT WORK



1. D
2. B
3. C
4. A
5. Answers will vary depending on the question you wanted to research. If you found the answer to your research question, you probably searched correctly!

Additional Resources

Ok time to quiz yourself! Check out these questions and try to answer them using your notes.

1. Cindy heard a new song on the radio. She wants to search for it online, but she can only remember one line of the song. Which of the following strategies should Cindy use to search for this song?
 - a. Include the date she heard the son on the radio
 - b. Use quotation marks around the line she remembers
 - c. Add synonyms to a few of the words she remembers
2. What is the first step you should take when you want to conduct an online research?
 - a. Select research questions
 - b. Run your research
 - c. Extract keywords and terms
3. You can often specify dates, exact words you're looking for, or even languages you want in your results in search engines such as Google, Yahoo!, or Bing using advance search options.
 - a. True
 - b. False
4. If you're looking for a national park which keyword should you include in your search?
 - a. .com
 - b. .org
 - c. .edu
 - d. .gov

Additional Resources

5. The word “Or” allows you to look for two words at once
 - a. True
 - b. False
6. When you’re trying to exclude results from a similar word you should
 - a. Use quotation marks
 - b. Just keep looking until you find the right one
 - c. Add a minus sign before a word to show that you don’t want that one included
7. Which is a good strategy when searching?
 - a. Use as many words as possible
 - b. Use a few words or phrases
 - c. Use multiple, specific, descriptive keywords
8. If your first search doesn’t work, trying synonyms rarely helps.
 - a. True
 - b. False
9. Which of the following words are used when planning a search?
 - a. Select
 - b. Apply
 - c. extract
 - d. All of the above

Additional Resources

Answer Time!!! How did you do?

1. B
2. A
3. A
4. D
5. A
6. C
7. C
8. B
9. D

