NAZARBAYEV UNIVERSITY LIBRARY

How to Find Information Sources and Applying Basic Search Techniques

(Sciences and Engineering)
OBJECTIVES

• Demonstrate how to search using the library portal and online catalog.

• Recognize e-resources including online library databases, online journals, and e-books specific for student’s use.

• Effectively apply search strategies or techniques.

• To help students become lifelong learners.
This is not a test!

Get a piece of paper write down your past experience/s in finding information sources.

• What were your obstacles in finding information?
• What search strategies did you used to find the information you need?

I want you to be honest as possible. There will be no right or wrong answers. I will collect the papers afterwards.
Online Public Access Catalog
(https://library.nu.edu.kz/wps/myportal)
When searching you may apply the Boolean Logic

- **AND**
- **OR**
- **NOT**

Use **NOT** in a search to:
- exclude words from your search
- narrow your search, telling the database to ignore concepts that may be implied by your search terms

**example:** cloning **NOT** sheep

https://libguides.mit.edu/c.php?g=175963&p=1158594
Search Limiters
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**Call number**

Since the collapse of the Soviet Union, Central Asian states have developed liberal-constitutional formal institutions. However, at the same time, political phenomena in Central Asia are shaped by informal political behaviour and relations. This relationship is now a critical issue affecting democratization and regime consolidation processes in former Soviet Central Asia, and this book provides an account of the interactive and dynamic relationship between informal and formal politics through the case of party-system formation in Kazakhstan. Based on extensive interviews with political actors and a wide range of historical and contemporary documentary sources, the book utilises and develops neo-patrimonialism as an analytical concept for studying post-Soviet authoritarian consolidation and failed democratization. It illustrates how personalism of political office, patronage and
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**Contents**


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Headline News, Science Views

David Jarmul, Editor; Foreword by Frank Press, President, National Academy of Sciences; National Research Council
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Physical Sciences and Engineering (Disciplines)

- Chemistry
- Mathematics
- Informatics and the computer sciences
- Physics
- Fundamental engineering sciences
- Materials sciences

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Subclass QA: Mathematics
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Subclass QD: Chemistry
Subclass QE: Geology
Subclass QH: Natural history - Biology
Subclass QK: Botany
Subclass QL: Zoology
Subclass QM: Human anatomy
Subclass QP: Physiology
Subclass QR: Microbiology

CLASS T - TECHNOLOGY

Subclass T: Technology (General)
Subclass TA: Engineering (General). Civil engineering
Subclass TC: Hydraulic engineering. Ocean engineering
Subclass TD: Environmental technology. Sanitary engineering
Subclass TE: Highway engineering. Roads and pavements
Subclass TF: Railroad engineering and operation
Subclass TG: Bridge engineering
Subclass TH: Building construction
Subclass TJ: Mechanical engineering and machinery
Subclass TK: Electrical engineering. Electronics. Nuclear engineering
Subclass TL: Motor vehicles. Aeronautics. Astronautics
Subclass TN: Mining engineering. Metallurgy
Subclass TP: Chemical technology
Subclass TR: Photography
Subclass TS: Manufactures
Subclass TT: Handicrafts. Arts and crafts
Subclass TX: Home economics

https://www.loc.gov
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*The books transferred to NUSOM, 5/1 Kerei - Zhanibek Khandar str., Astana Z05K4F4*
Reminders when searching:

- Identify keywords: major concepts of your topic
- Do a quick database search
- Identify synonyms
- Sometimes, it may require you to do a background research

https://libraries.indiana.edu/file/identifying-keywords-pdf
Phrases
If you want to search for a multi-word phrase, use quotation marks around the words to get results that use the words in exactly that order. For example, search “human rights” instead of human AND rights.

Truncation
To make sure you get all variations of a word, use the truncation symbol. In most databases, this symbol is an asterisk *. For instance, the search term prepar* will find the words prepare, prepared, prepares, preparing, and preparation. Try laugh* and economy*

Subject terms
Searching with a human-chosen subject term can be much better than relying on a mechanical word search. Electronic databases generally include pre-assigned subject terms for each article.

Wild card
A wild card symbol replaces a single letter - useful to retrieve alternative spellings and simple plurals eg wom?n will find woman or women. Try ne?t

http://lib.skidmore.edu/library/index.php/effective-search-techniques
https://www.reading.ac.uk/libraryfinding-info/guides/databases/lib-searching-databases-search-techniques.aspx
ACTIVITY - https://library.nu.edu.kz/wps/portal
Using the keyword “mathematics”

1. How many results were retrieved upon doing the simple keyword search?
2. Select “books” on the left side of the catalog, how many results were you able to see?
3. How many books are available for the entry entitled, “Mathematics: a simple tool for geologists by David Waltham?”
4. The call number of this book (from Q3) indicates that the subject came from which LCC class?
5. Where can I find this book (from Q3) (hint: floor number)?
6. Who is the publisher of this book (from Q3)?
What to do when you encounter this?

You need to be logged into your account to access the e-books in the online catalog.
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Кұрылықтар болса, Кітепхананың сұрақ қоюыңыз

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Introduction

Hi! Anyone doing research at a university - whether they are doing a student research project or dissertation, or planning a large scale study - needs to use the right tools to plan their study, gather their data, and make sense of their findings. These tools are the "research methods" of the social sciences.

I've created this research guide to help you in your exploration of research methods in the social sciences. In this guide are tips to find resources on the SAGE Research Methods platform. It will also guide you in finding the best literature to enable you to choose a methodology and launch into your research project.

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Journal of Mathematics

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United Kingdom of Great Britain & Northern Ireland

Resource Type: Journal
Subjects: Mathematics
Description: Publishes original papers from all areas of mathematics.
URL: http://www.ucm.cl/im/investigacion/publicaciones/default.jsp
Frequency: 3
Peer Reviewed: Yes
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The CRAAP Test

- From: Evaluating Information – Applying the CRAAP Test
  Meriam Library, California State University, Chico (2010).
  https://www.csuchico.edu/lins/handouts/eval_websites.pdf

Evaluation Criteria

**Currency:** The timeliness of the information.
- When was the information published or posted?
- Has the information been revised or updated?
- Does your topic require current information, or will older sources work as well?
- Are the links functional?

**Relevance:** The importance of the information for your needs.
- Does the information relate to your topic or answer your question?
- Who is the intended audience?
- Is the information at an appropriate level (i.e. not too elementary or advanced for your needs)?
- Have you looked at a variety of sources before determining this is one you will use?
- Would you be comfortable citing this source in your research paper?

**Authority:** The source of the information.
- Who is the author/publisher/source/sponsor?
- What are the author's credentials or organizational affiliations?
- Is the author qualified to write on the topic?
- Is there contact information, such as a publisher or email address?
- Does the URL reveal anything about the author or source?


**Accuracy:** The reliability, truthfulness and correctness of the content.
- Where does the information come from?
- Is the information supported by evidence?
- Has the information been reviewed or refereed?
- Can you verify any of the information in another source or from personal knowledge?
- Does the language or tone seem unbiased and free of emotion?
- Are there spelling, grammar or typographical errors?

**Purpose:** The reason the information exists.
- What is the purpose of the information? Is it to inform, teach, sell, entertain or persuade?
- Do the authors/sponsors make their intentions or purpose clear?
- Is the information fact, opinion or propaganda?
- Does the point of view appear objective and impartial?
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