

Animal Production

Handout 3 Steps in the Independent Study Research Process

Steps in the Independent Study Research Process

- 1. Understand the assignment
- 2. Begin a research folder
- 3. Select a topic
- 4. Locate sources of information
- 5. Suggest a tentative focus
- 6. Develop tentative thesis if it is required
- 7. Check/consult with your facilitator
- 8. Analyse resources and select appropriate information
- 9. Make notes and record information for works cited list
- 10. Develop a final thesis
- 11. Conference with your facilitator
- 12. Prepare a tentative outline, organize information under main ideas and supporting points
- 13. Conference with your facilitator
- 14. Write a first draft
- 15. Edit the first draft
- 16. Write the final version
- 17. Prepare a presentation
- 18. Evaluate the assignment

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UNDERSTAND THE ASSIGNMENT

Make sure you understand the assignment and its requirements:

- format (project, report, research essay, oral presentation)
- due date
- > length
- evaluation

Definitions:

- Project a research assignment which may include maps, pictures, charts, interviews, etc.
- Report an organized presentation of facts about a subject
 - Research Essay the written expression of your opinion (stated in a thesis) supported by information gathered independently



BEGIN A RESEARCH FOLDER

Have a folder. Keep it organized.

Keep everything.

Your folder should eventually contain:

- the assignment, and all details about dates and marks
- a record of the work you have done (a log). See Appendix 2.
- all your notes
- a record of interviews and phone calls (if applicable)
- newspaper clippings, magazine articles, pamphlets and printouts
- an ongoing record of all sources of information
- a list of appropriate subject headings
- all outlines and drafts

3. SELECT A TOPIC

See the process in Appendix 5A. Consult with your facilitator, librarian, family and friends.

Choose a topic that is:

interesting

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- manageable (in terms of time and resources)
- appropriate



4. LOCATE SOURCES OF INFORMATION

- vertical file material
- videos
- > internet
- > books
- periodicals and newspapers (electronic and print)
- community resources
 See Appendix 4.



5.

SUGGEST A TENTATIVE FOCUS

Select one aspect of the topic.

See Appendices 5A, 5B and 5C.

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6. DEVELOP A TENTATIVE THESIS IF REQUIRED

State your opinion on the narrowed topic.

Be aware that the research you do may cause you to modify or revise your tentative thesis

Treat your tentative thesis as your research question.

See Appendix 6.

7. CONSULT WITH YOUR FACILITATOR

Are you on the right track?

8. EXAMINE RESOURCES AND SELECT APPROPRIATE INFORMATION

- Table of contents
- Indexes
- Chapter summaries
- Charts and graphs

Remember the scope and limits of your topic.

Use skimming and scanning techniques.

Skimming a chapter or an article means reading

Skimming a chapter or an article means reading only:

- title subtitles
- · captions on illustrations
- · first and last paragraphs

From skimming it, you can determine what appears to be the main point or idea of the chapter or article. See Appendix 8A.

Scanning means reading for key words. Recognize the intent, authority, currency, bias and level of difficulty of your sources. The internet presents special problems.

Evaluation: See Appendix 8B for ways to evaluate internet sources.

9. MAKE NOTES AND RECORD INFORMATION FOR WORKS CITED LIST

Make notes on everything that might be important. Notes are made by summarizing, paraphrasing and/or quoting.

- Summarizing is expressing the main ideas in condensed form.
- Paraphrasing is restating the information in your own words.

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- Quoting is using the author's exact words.
- Avoid plagiarism: acknowledge all statements and ideas which are not your own.
- How to avoid plagiarism: correct documentation of sources

For note making techniques and suggestions General Note Making

10. DEVELOP A FINAL THESIS

See Appendix 6

11. CONFERENCE WITH YOUR FACILITATOR

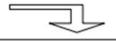
See Appendix 11

12. PREPARE A TENTATIVE OUTLINE, ORGANIZING INFORMATION UNDER MAIN IDEAS AND SUPPORTING POINTS

Most word-processing programs have outlining features.

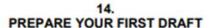
See Appendix 12.

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13. CONFERENCE WITH YOUR FACILITATOR

See Appendix 11



Double space to allow for corrections and changes.

Prepare your draft directly from your outline and notes.

Include a clear statement of your purpose in your introductory paragraph.

Organize your ideas logically.

Use a clear, direct style; avoid slang or jargon.

Make sure quotations are short and relevant.

Include embedded citations at this time.

See Appendix 14

15. EDIT YOUR FIRST DRAFT

See Appendix 15

16. WRITE YOUR FINAL VERSION

(See Appendix 16A) and a list of works cited.

See Appendix 16B.

17. PREPARE A PRESENTATION

Confirm the format of your presentation with your facilitator

See Appendix 17 for a variety of possible formats.



18. EVALUATE THE ASSIGNMENT

Remember that the process is just as important as the final product.

Evaluation may take several forms:

self, peer, group and facilitator.

See Appendices 18A, 18B and 18C.

FOR USEFUL WEBSITES FOR THE RESEARCH AND WRITING PROCESS

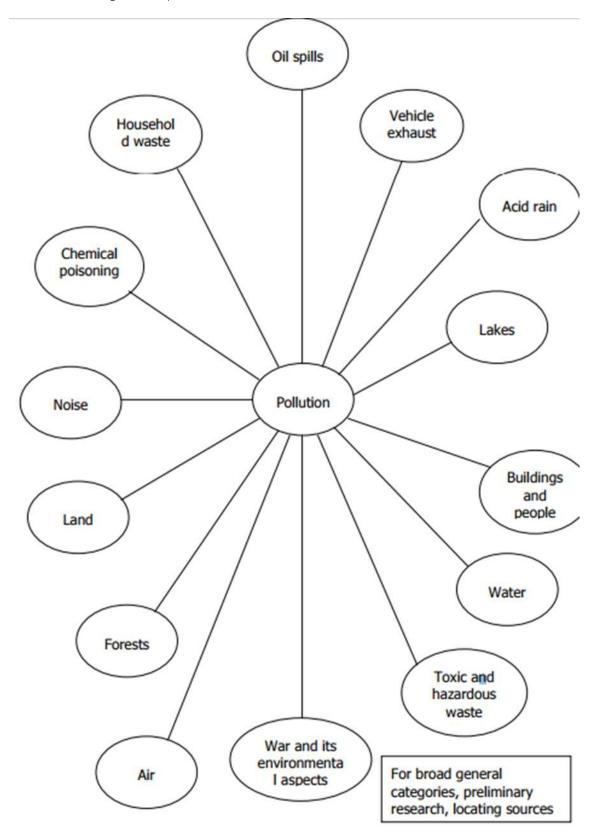
See Appendix 4a

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Work Log Appendix 2

WORK LOG

| ne: | Assignment: | |
|-----|-------------|---------|
| | Time Spent: | |
| | | |
| | Time Spent: | hour(s) |
| | | |
| | Time Spent: | |
| | | |
| | | |



SOURCES OF INFORMATION:

HOW and WHERE TO LOCATE:

Reference Materials

- general encyclopedias
- subject specific encyclopedias, dictionaries, handbooks and

Encyclopedia,

indexes (e.g. McGraw-Hill

Encyclopedia of Science and Technology)

 print (e.g. World Book, Britannica) Britannica, World

- dictionaries
- yearbooks, almanacs, directories
- atlases

Books:

electronic catalogue

Internet

reference section

- CD-ROM (e.g. Canadian
- World Book)
- on-line via www: Grolier,

Book, Galenet

Periodicals and Newspapers:

- Guide to Periodicals and Newspapers in the Public Libraries
- on-line access via the Internet (Electric Library, EBSCO, SIRS, CPIQ, NEWSCAN)
- Internet

Other resources

- videos
- film and video catalogues are available

online

- films
- television programs
- audio tapes
- slides

SABC videos are available

USEFUL WEBSITES FOR THE RESEARCH AND WRITING PROCESS

Resources for Writers: http://owl.english.purdue.edu/writers/by-topic.html

Writing at the University of Toronto:

http://utl2.library.utoronto.ca/www/writing/index.html Research and Argument: http://karn.ohiolink.edu/~sq-ysu/

Infozone: http://www.mbnet.mb.ca/~mstimson/

A+ Research & Writing: http://www.ipl.org/teen/aplus/ Researchpaper.com: http://www.researchpaper.com/

Search Strategy Sheet

Appendix 4B

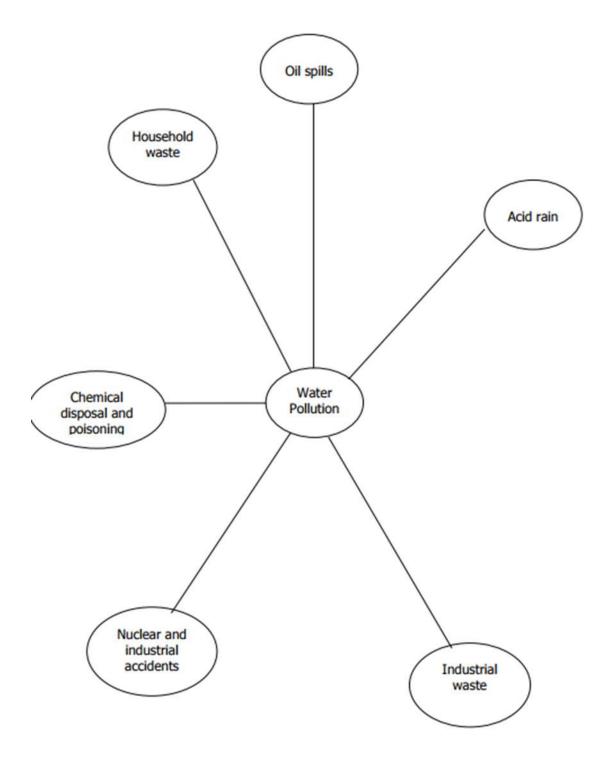
| Describe Y | our Topic: | | | |
|---------------|--------------|----------------------|----------|--|
| Identify th | e Main conc | epts: | | |
| Concept # 1 | | Concept # 2 | | Concept # 3 |
| ♦ Find Synor | | | | |
| and alternate | | hould be placed in t | | a collision of the coll |
| | | | | |
| and alternate | spellings sl | hould be placed in t | the same | CONCEPT column. |
| and alternate | and and | hould be placed in t | the same | CONCEPT column. |
| Concept # 1 | and or_ | Concept # 2 | the same | CONCEPT column. Concept # 3 or |
| Concept # 1 | and or_ | Concept # 2 | the same | CONCEPT column. Concept # 3 |
| Concept # 1 | and or_ | Concept # 2 | the same | CONCEPT column. Concept # 3 or |
| Concept # 1 | and or_ | Concept # 2 | the same | CONCEPT column. Concept # 3 or |
| Concept # 1 | and or_ | Concept # 2 | the same | CONCEPT column. Concept # 3 or or |

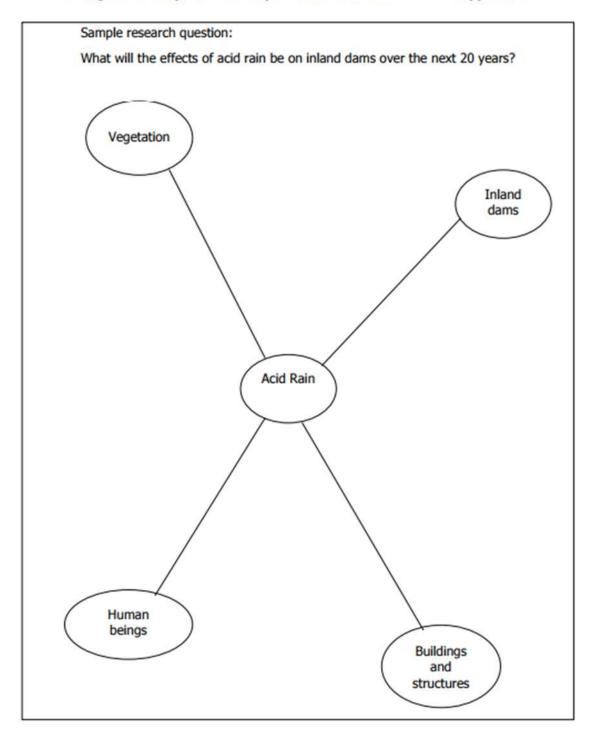
Search Strategy Sheet Example

Appendix 4C

| Identify the | Main concepts: | |
|---|---|------------------------------------|
| Concept # 1 | Concept # 2 | Concept # 3 |
| Violence | Mass media | children |
| | | |
| | | |
| | | |
| | 1 1 | |
| | | |
| ◆ Find Synony | | |
| Use the appr | ropriate thesaurus to identify synor | |
| Use the appr and alternate | ropriate thesaurus to identify synor e spellings should be placed in the | same CONCEPT column. |
| Use the appr and alternate Concept # 1 | ropriate thesaurus to identify synore spellings should be placed in the | Same CONCEPT column. Concept # 3 |
| Use the appr and alternate | ropriate thesaurus to identify synore spellings should be placed in the | same CONCEPT column. |
| Concept # 1 Violence | ropriate thesaurus to identify synore spellings should be placed in the | Same CONCEPT column. Concept # 3 |
| Use the apprainant and alternate Concept # 1 Violence | ropriate thesaurus to identify synore spellings should be placed in the | Same CONCEPT column. Concept # 3 |
| Use the approach and alternate Concept # 1 Violence | copriate thesaurus to identify synore spellings should be placed in the Concept # 2 and Mass media ar | Concept # 3 children |
| Concept # 1 Violence aggression | copriate thesaurus to identify synore spellings should be placed in the Concept # 2 and Mass media ar | Concept # 3 children |
| Concept # 1 Violence aggression | copriate thesaurus to identify synore spellings should be placed in the Concept # 2 and Mass media are or television | Concept # 3 children or childhood |
| Concept # 1 Violence aggression and alternate aggression and alternate | copriate thesaurus to identify synore spellings should be placed in the Concept # 2 and Mass media are or television | Concept # 3 children or childhood |
| Concept # 1 Violence aggression and alternate aggression and alternate | copriate thesaurus to identify synore e spellings should be placed in the Concept # 2 and Mass media are or television or films | Concept # 3 children or childhood |
| Use the approach and alternate Concept # 1 Violence aggression anger | copriate thesaurus to identify synore spellings should be placed in the Concept # 2 and Mass media or television or films or computer games | children or childhood or |
| Use the approach and alternate Concept # 1 Violence or aggression or anger | copriate thesaurus to identify synore e spellings should be placed in the Concept # 2 and Mass media are or television or films | Concept # 3 children or childhood |
| Concept # 1 Violence aggression | copriate thesaurus to identify synore spellings should be placed in the Concept # 2 and Mass media or television or films or computer games | children or childhood or |

Selecting One Aspect of the Topic "Pollution" Appendix 5A





A thesis is the expression of your opinion on a topic.

Select a topic:

My topic: Capital Punishment

Get an overview from a variety of sources

Formulate a question from which your thesis statement can develop.

Question: Does the death penalty prevent crime?

- Formulate a thesis statement that:
- takes a stand
- is arguable
- can be researched
- Tentative Thesis: Capital Punishment does not deter murder
- Check your Thesis Statements against the models

| Thesis | Thesis Comment | | |
|---|---|-------------------------------|--|
| 1) Capital punishment. | I punishment. This is topic, not a thesis. | | |
| 2) Does the death penalty prevent crime? | y prevent This is a good question that leads to a thesis, but this is not a thesis. | | |
| 3) The murder rate is a concern. | A statement of fact is stand that is arguable | s a weak thesis. Take a e. | |
| Something must be done about the murder rate. | Weak thesis. What m Take a stand that is | | |
| Capital punishment prevents crime. | Good thesis | Both take stands | |
| Capital punishment does not deter murder. | Good thesis | and are arguable. | |

Can your Thesis be researched?

Either #5 or #6 above can be researched because there are many resources on capital punishment, both pro and con, in your institution's library and in the community at large.

Skimming Appendix 8A

- How to skim a book
- Flip through the book from cover to cover. This gives you a general impression. Is the print easily read? Are there illustrations?
- Flip through a second time. Look for chapter headings, summaries, questions, vocabulary lists, indexes, etc.
- Look at the book jacket. Is there a summary of the contents? Is there biographical information about the author? Look at the title page front and back. What is the date of publication? Is the book out of date?
- Look at the preface. Does the author express a particular point of view or bias? What other useful information is contained here?
- Skim the table of contents for relevant sections.
- Read opening and closing paragraphs of selected chapters. They often contain summaries of the chapters.
- Check the index for specific references to your topic.
- How to skim an article or chapter
- Glance quickly through the article to get an overall impression of length and organization.
- Read the title, headings, captions, words in heavy print, italicized words, etc.
- · Look closely at illustrations, charts, graphs, maps, etc.
- Read first and last paragraphs.
- Read the first sentence (usually the topic sentence) of other paragraphs.
- Read any questions at the end of the chapter or article.

Scanning

Scanning involves running your eyes down the page looking for specific facts or key words and phrases. Think about what FORM the information will take: Is it a number? Is the word in capitals? How does it start?

- VISUALISE what the word or number looks like
- Use numerical order
- Do NOT read every word/number
- Read FAST and when you find the information you want then you slow down and examine it closely

When you locate a new term, try to find its definition. If you are not able to figure out the meaning, then look it up in the glossary or dictionary. Secondly, scanning is useful in locating statements, definitions, formulas, etc. which you must remember completely and precisely.

Because we live in an information age, the quantity of information on any given topic is huge. However not all of this information is useful or trustworthy. Therefore judging the accuracy of information is an important skill, which is needed all the time.

When researching a topic you will also be evaluating sources as you search for information. You can have some confidence in the information contained in books, newspapers, and magazines since these sources are edited before they are published. You need to judge whether these sources are useful in terms of coverage of the topic, whether the information contained in the source is up to date, and whether the author presents a biased viewpoint.

Evaluating Internet sources can be a problem because anyone can put anything up on the Internet. Many Internet sources are self-published by the author, have not been edited by others and are not monitored. Use the following checklist to judge the Internet sites you find. Articles found in online databases such as encyclopaedias, periodical articles databases, and newspaper databases can be treated as reliable sources because they have been edited in their original publication form. Remember, as well, that you should always use a variety of resources as part of the research process.

Useful Internet Sites for Evaluating Sources

- Kathy Schrock's Guide for Educators: Critical Evaluation Tools http://www.discoveryschool.com/schrockguide/eval.html
- Evaluating Sources of Information
 http://owl.english.purdue.edu/Files/131/a-start.html
- Evaluating Internet Sources
 http://members.aol.com/xxmindyxx/evaluate/question.htm
- Evaluating Web Resources

http://www2.1widener/Wolfgram-Memorial-Library/webeval.htm

Checklist for Evaluating an Internet Site

Appendix 8C

| Title: | URL: |
|--------|--|
| • | Authority |
| | Is the author of the page clearly indicated? (If yes, identify) YES/NO |
| • | What are the author's qualifications and reputation in the subject? If they are not listed, can you find out? |
| | Has the site been rated by a reputable rating group? (If yes, identify) YES/NO |
| | Has it won any awards? (If yes, identify) YES/NO |
| • | Bias |
| | What does the domain address tell you about the site? |
| | -edu: indicates an educational site (usually a university or college) -gov: indicates a government site -org: indicates an organization or advocacy group -com: indicates a business or commercial organization -co: indicates a business or commercial organization -za: indicates a South African site -uk: indicates a British site -v: indicates a personal web page |
| 1.5 | What is the purpose of the site: to inform, to persuade? |
| | Is there an organization sponsoring the page? YES/NO |
| | Who are they? What does this tell you about the page's purpose? |
| | Who is the intended audience of the site? |
| • | Content and Accuracy |
| • | Is the material covered adequately? YES/NO Explain: |

| • | How can you tell if it was well researched? YES/NO Explain: |
|---|--|
| • | Is there documentation to indicate the sources of the information pres YES/NO |
| | Explain: |
| • | Does the site have links to other reliable sites on the topic? YES/NO |
| • | Do they work or are they out of date? |
| • | Did you reach this site from a reputable link? YES/NO |
| | |
| ٠ | Currency |
| • | What is the date of posting of the site? |
| • | Have there been revisions since then? |
| • | Is the information current or out of date? |
| • | Technical Aspects |
| • | Is the site easy to load? YES/NO |
| | Comment: |
| | Is the site easy to navigate? YES/NO |
| | Comment: |
| | |
| • | Do graphics, pictures and the layout add to the value of the site? |
| | Comment: |
| ٠ | Overall Evaluation |
| | |
| | After looking at all the criteria above, circle a general rating for the site: • Excellent • Good • Average • Borderline Acceptable • Unacceptable |
| | Excellent • Good • Average • borderline Acceptable • onacceptable |