Presentation slides available at https://dochub.com/pselibraryteaching/o8YW4y/ma1003-library-slides?dt=m1ovx9kdsf5tu2x8

MATHS BSc, Yr 1 - Online handout.

Useful links

Online library induction: https://xerte.cardiff.ac.uk/play_4219

LibrarySearch [make sure you sign in at the top] - librarysearch.cf.ac.uk

Information resources for your subject [log-in required] - https://intranet.cardiff.ac.uk/students/your-study/libraries/subject-support/information-resources-for-your-subject

Study skills pages [log-in required] - https://intranet.cardiff.ac.uk/students/your-study/study-skills

BibTeX and JabRef guide - http://bit.ly/2sbeYKL

Useful contacts

Cathy Parker - Assistant Subject Librarian. ParkerCJ@cardiff.ac.uk
Senghennydd Library - sengliby@cardiff.ac.uk +44 (0)29 2087 4158

Contents:

Library Search

Click here to view a video demonstrating how to use LibrarySearch to find material for your research - http://bit.ly/librarysearch1718
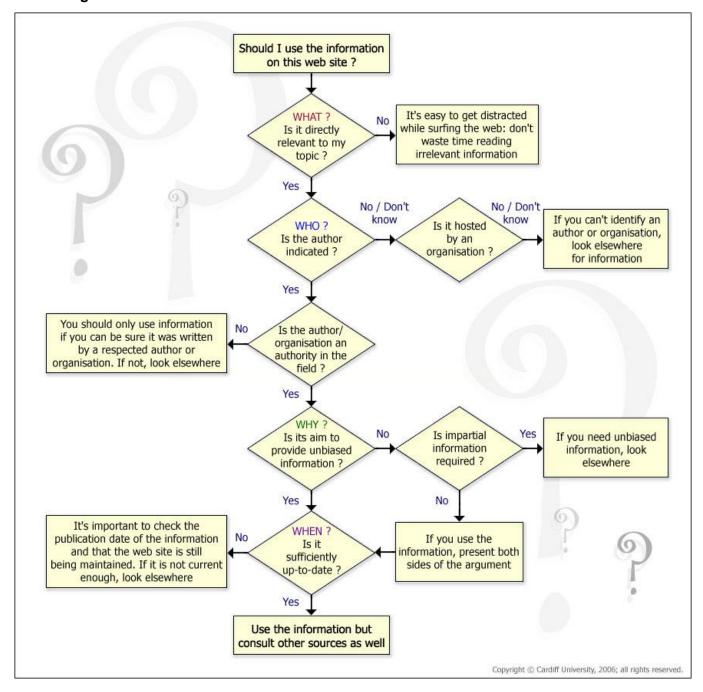
LibrarySearch also allows you to:

- Check your **library account** for your loans, borrowing history, requests and any fines
- Request **Inter-Library Loans** of items that you need for your research but are not held at any library at Cardiff University
- **Suggest** that the library purchase a new title or extra copies of an existing title.

Just go to the LibrarySearch homepage where you will find the options for all of the above.

Evaluating Information Flowchart

Flowchart: Should I use the information on this web site?

WHAT? Is it directly relevant to my topic? — No → It's easy to get distracted while surfing the web: don't waste time reading irrelevant information

Yes ↓

WHO? Is the author indicated? — No / Don't know → Is it hosted by an organisation? — No / Don't know → If you can't identify an author or organisation, look elsewhere for information

Yes ↓

Is the author/organisation an authority in the field? — No → You should only use information if you can be sure it was written by a respected author or organisation. If not, look elsewhere

Yes ↓

WHY? Is its aim to provide unbiased information? — No → Is impartial information required? — Yes → If you need unbiased information, look elsewhere

No → If you use the information, present both sides of the argument

Yes ↓

WHEN? Is it sufficiently up-to-date? — No → It's important to check the publication date of the information and that the web site is still being maintained. If it is not current enough, look elsewhere

Yes ↓

Use the information but consult other sources as well

Google Searching: Top Tips

Exclude a term

Use the minus sign to exclude pages which mention a particular term:

bass –fishing
wales –"new south"
But this not always reliable!

Multiple Search Terms

Use **OR** between terms to retrieve pages containing a range of single terms or phrases you type in:

weather OR climate
"arctic tern" OR "common tern"

Intitle

Use **intitle:** to specify that particular search terms must appear in the title of a web site.
intitle: "global warming"

Numerical Ranges

Use **...** to search for pages containing numbers within a range you specify. E.g. **"William Morris" 1860..1870** will return pages mentioning William Morris and mentioning one

Filetype

Use **filetype:** or **ext:** to specify the types of file (pdf, xls, doc etc) you want Google to find. E.g. **"geiger counter" filetype:pdf** will return documents about Geiger counters which are in PDF format.

Site

Use **site:** to specify that web pages should be from particular domains or types of address:
site:.ac.uk will retrieve sites only from .ac.uk addresses, i.e. UK higher education web sites.
site:cardiff.ac.uk will retrieve pages only from Cardiff University. Some other options:

See many more Google search tips at:
www.googleguide.com

Type	Purpose
.biz	US / global commercial
.co.uk	UK commercial
.com	Commercial
.edu	US higher education
.gov	US government
.gov.uk	UK government site
.nhs.uk	National Health Service site
.net	Commercial site
.org	Not-for-profit site
.org.uk	Not-for-profit, in UK

To search multiple domains use the following commands:
global warming **site:.ac.uk OR site:.edu**

Link

Use **link:** to find sites that link to a particular site.
link:www.cardiff.ac.uk will find sites which include web links to the Cardiff University website. This could be useful in cases where you have found a website of interest, since searching for other sites which link to it might lead you to other useful, related websites.

Calculator

Type in a mathematical expression and Google will supply the answer. E.g. **4+7**, **30% of 75**, **25^4**, **sqrt(9)** etc. See lots more tips for how to formulate your maths expressions at www.googleguide.com/help/calculator.html

Google Translate

Translate text into or from a choice of over 70 languages. However, be wary of accuracy!
http://translate.google.com/

Finally ... to search for occurrences of a specific term within a web page, use **Control +F** then enter your term

Google Scholar - off-campus access

Off-campus Library Links: Go to ☰ > **Settings > Library Links** and type Cardiff University.
Select the options for Cardiff University and click **Save.**

Enhancing your web searching: some useful tools

The Google Family

1. Google http://www.google.co.uk

2. Google Advanced Search https://www.google.co.uk/advanced_search

3. Google Scholar http://scholar.google.co.uk/

General Search Engines

4. Bing http://www.bing.com/

Launched in 2009. Formerly MSN & Live.com. Offers useful related searches to help refine your results. Possibly the most up to date search engine with great image searching – has tried to emulate Google.

5. DuckDuckGo http://duckduckgo.com/

A clear and uncluttered layout with a powerful search facility and effective ranking. Prides itself on its privacy policy (i.e. it will not track you and manipulate your results accordingly). The !bangs feature allows you to directly search other engines or websites. A great Google alternative.

Specialist Search Engines

6. BASE http://www.base-search.net/

Bielefeld Academic Search Engine is a multidisciplinary academic search engine with good advanced search features. It specifically searches academic open access web resources.

7. WolframAlpha https://www.wolframalpha.com

A computational search engine useful for queries in disciplines such as science, technology and mathematics.

8. ORCA http://orca.cf.ac.uk

Cardiff University's institutional repository of academic research.

9. Boardreader http://boardreader.com/
Searches forums, blogs & message boards.

Searching back in time

10. Wayback Machine https://archive.org/

The Internet Archive search engine, tracing older versions of web pages.
Image Sources

11. Creative Commons Images https://search.creativecommons.org/

Creative Commons licenses provide a flexible range of protections and freedoms for ... Image. Jamendo Music. Open Clip Art Library Image. SpinXpress. Media.

12. Google Images http://www.google.com/imghp

The most comprehensive image search on the web.

13. Chromatik http://chromatik.labs.exalead.com/

An innovative tool which allows you to search for images by colour and keyword.

14. Morguefile http://www.morguefile.com/

A free online public archive of photographs made available under Creative Commons licence.

15. Pixabay http://pixabay.com/

Over 330,000 free photos, illustrations and vector graphics

MA1003 Project report: finding and using information.

Your report should demonstrate that you can find good quality information and use it effectively. Include citations in your text and a reference list of the sources you have consulted in your research.

Your reference list should include a wide variety of resources including, for example:
- Books/eBooks (found in the library or through LibrarySearch)
- Journal articles
- Good quality websites
- Marketing/company data where appropriate

Marking criteria:
Citing and referencing
Marks are allocated for use of correct citing and referencing practice, consistent references, spelling, punctuation and formatting.
Content / Quality
The report should reference relevant information from a variety of good-quality sources.

A global mark from 0-10 will be awarded for the content/quality of the references in the report and for the accuracy/consistency of the citing and referencing.

Mark	Criteria
0	No sources cited.
1-2	Limited evidence of research into the topic / limited number of references.
3-4	Evidence of some research into the topic. Few or no good quality sources. Multiple errors/inconsistencies with citing & referencing, components missing or unnecessary ones inserted.
5-6	Evidence of some research into the topic. Attempt made to use some good quality sources. Some errors/inconsistencies with citing & referencing, components missing or unnecessary ones inserted.
7-8	Evidence of extensive research into the topic. Attempt made to use some good quality sources. Mostly consistent citing and referencing with some errors, omissions, or unnecessary additions to the bibliography.
9-10	Evidence of extensive research into the topic. Good quality sources and a variety of source types.

	Consistent citing and referencing with few/no errors, omissions or unnecessary additions to the bibliography.