Acknowledgment of Country

We acknowledge the traditional custodians of the Macquarie University land, the Wattamattagal clan of the Darug nation, whose cultures and customs have nurtured, and continue to nurture, this land, since the Dreamtime.

We pay our respects to Elders past, present and future.
Your Research Librarians

Education

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Further details: https://www.mq.edu.au/about/campus-services-and-facilities/library/research/research-librarians
Learning goals

**FIND: Locate Academic Content**
- Use peer-reviewed articles

**FIND: Better Search Techniques**
- Define and perform a literature review
- Identify key search words / main concepts
- Develop a list of synonyms (alternative words) for each concept
- Identify key sources / databases
- Who are the key researchers?

**EVALUATE: Critically Assess Content**

**ORGANISE: Manage Search Results**
- Troubleshooting your search
- Reference Management Software
Research process: the “How”? 

1. Analyze Topic sources types of data
   - Design Search Strategy
     - keywords
     - related terms
     - search tools

2. Search Multisearch databases
   - internet

3. Get full text & citations
   - print/online
   - doc. supply
   - EndNote

4. Review & evaluate CRAAP

5. Found what you want?

   YES
   - Present information Referencing

   NO

Library 2020
Why a literature review?

Current state of your research field, the main …

- Authors
- Theories
- Ideas
- Methods

Some of the questions the review of the literature can answer

Finding key works & authors

Use citation databases – “times cited”
- Google Scholar
- Scopus/ScienceDirect
- Web of Science

Journal quality/reputation
- JCR journal citation reports
- Google Scholar metrics
- Scopus
- Journal home page / Ulrichsweb – scope, peer review, editors
Where to search?

Journal Databases come in all sorts of forms… don’t limit your search to just one place
Where to search?

‘Grey Literature’ : Unpublished or non traditional publishing sources

• Theses – Trove, Proquest Dissertations & Theses
• Government documents
• Statistics – ABS, research articles,
• Standards
• Patents
Where to Search

Some suggested databases for Education:

Academic Search Premier
ERIC on the ProQuest platform
A+ Education
LearnTechLib
PsycINFO
Scopus
Taylor & Francis Online
Activity 1 – Practice Search

Do a quick practice search in:
• Google Scholar or
• MultiSearch

What sort of results do you get?
Are they relevant, too many, too few?

Any ideas to improve them?
Find: Locate Academic Content

Live: A Quick Refresher

Library

MultiSearch

Search MultiSearch...

Books, Articles & more

MyLibrary  Journals A-Z  Google Scholar @MQ

Opening hours

Books, Articles & more

Databases

Unit Readings

Past Exam Papers

Variety of Study Spaces

Physical and Electronic Collection

https://www.mq.edu.au/about/campus-services-and-facilities/library
Find: Locate Academic Content

Live: Library Research Tools

Education Research Guide
*Post Grad Resources: Find, Evaluate & Organise*

**StudyWise** — the library’s online research and information literacy support tool. It includes online tutorials to help you develop various information and searching skills. Students and staff can self enrol and get support anywhere anytime. Located with [iLearn](#).

**Subject Research Guides / LibGuides** - succinct information skills help on all the disciplines taught at the university, plus many other types of useful research support.

**Research Online** — Macquarie University’s institutional repository for research output by the Macquarie community.
Find: Better Search Techniques

Develop Your Terms To create a great search strategy

1. Identify the **main concepts** in your search topic. (Usually 2-3)
2. Think of other terms which mean the same thing – **synonyms**
3. Use Dictionaries, Google, Wikipedia, articles you have already found, to find more synonyms
4. Put them in a **table** which you can continue to add to
5. This will become the **basis of your search strategy**.
Search Example

Try a search on your topic… here is an example:

*Does reflective practice make pre-service teachers better teachers?*

Try it first in Google Scholar or Multisearch… then try some discipline specific or multidisciplinary databases…

What did you find? Were the searches successful? Which was best?
Find: Better Search Techniques

Search terms

<table>
<thead>
<tr>
<th>Concept 1:</th>
<th>Original Keyword</th>
<th>Alternative Keyword</th>
<th>Alternative Keyword 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&quot;Reflective practice&quot;</td>
<td>Self evaluation</td>
<td>Self regulated learning</td>
</tr>
<tr>
<td>Concept 2:</td>
<td>Pre-service teacher*</td>
<td>Student teacher* or Education student*</td>
<td>Teacher candidate*</td>
</tr>
<tr>
<td>Concept 3:</td>
<td>Teacher effectiveness</td>
<td>Instructional effectiveness</td>
<td></td>
</tr>
<tr>
<td>Concept 4:</td>
<td>Try first</td>
<td>Backup plan</td>
<td></td>
</tr>
<tr>
<td>Technique</td>
<td>Format</td>
<td>Example</td>
<td></td>
</tr>
<tr>
<td>---------------------</td>
<td>-------------------------</td>
<td>-------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Boolean Operators</td>
<td>AND, OR, NOT</td>
<td>(reflective practice OR self evaluation) AND (Preservice teacher* OR Student teacher*)</td>
<td></td>
</tr>
<tr>
<td>Inverted commas</td>
<td>“…”</td>
<td>“reflective practice”</td>
<td></td>
</tr>
<tr>
<td>Truncation</td>
<td>*</td>
<td>strateg*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>!</td>
<td>= strategies, strategic, strategy ...</td>
<td></td>
</tr>
<tr>
<td>Wildcard</td>
<td>?</td>
<td>Behavio?r</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>= behavior or behaviour</td>
<td></td>
</tr>
<tr>
<td>Proximity operators</td>
<td>ADJ / NEAR / WITHIN / PRE (etc)</td>
<td>Find words within a certain distance of each other (check database help for details)</td>
<td></td>
</tr>
<tr>
<td>Nesting</td>
<td>Use brackets to group words and search order</td>
<td>(reflective practice OR self evaluation) AND (Preservice teacher* OR Student teacher*)</td>
<td></td>
</tr>
</tbody>
</table>
Find: Better Search Techniques

Limits & Fields

Using Limits
• Specific dates
• Full text
• Peer reviewed/scholarly articles
• Language
• Document type e.g. review, journal article, thesis
• Geographic location

Searching specific fields
• Descriptors/subject headings/subjects
• Abstract
• Author
<table>
<thead>
<tr>
<th>Date</th>
<th>Source</th>
<th>Search type</th>
<th>Search strategy</th>
<th>Total hits</th>
<th>Related terms; Descriptors Subject headings Preferred terms</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Mar</td>
<td>ERIC (Proquest)</td>
<td>Advanced – keyword only</td>
<td>(reflective practice OR self evaluation) AND (Preservice teacher* OR Student teacher*) AND (teacher effectiveness OR Instructional effectiveness)</td>
<td>2696 (1062)</td>
<td></td>
<td>This interface designed to give lots of results. Not all relevant. Many options for filters e.g.: use Peer Reviewed = 1062</td>
</tr>
<tr>
<td>1 Mar</td>
<td>ERIC</td>
<td></td>
<td>&quot;reflective practice&quot; AND &quot;Preservice teacher* &quot;</td>
<td>354</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Mar</td>
<td>PsycInfo</td>
<td>Advanced - subjects</td>
<td>Reflective practice (KW) AND (exp Teacher Education(SH) OR exp Preservice Teachers(SH) OR pre-service teacher*.mp. OR exp Student Teachers(SH))</td>
<td>185</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
(reflective practice OR self evaluation)

AND

(Preservice teacher* OR Student teacher*)

AND

(teacher effectiveness OR Instructional effectiveness)
Activity 2 – Search Strategy

• Find a partner (someone you don’t know if possible)
• Spend 2-3 minutes telling them about your chosen topic
• Then, we will ask for an example to work through together as a group
• We will identify the major concepts in the topic and synonyms

Find Synonyms:

• Use online resources: dictionaries and thesauri
• Try the Education Reference Resources via MQ Library
• ERIC (ProQuest) has one which you can match your suggested terms to its subject headings
What to do when you can’t find anything…

- Check that terms are spelled correctly?
- Remove the least important concept from your search
- Check if alternative spellings or alternative terms are used in different countries or different settings (e.g., School vs Clinical)
- Think of alternative/synonymous keywords or subject headings
- Check if there have been too many limits set
- Choose another database
What to do when you find too much...

- Check the first few articles in your results – are they relevant enough? If not, consider adding another concept to your search to make it more specific.
- Use more limits
- Check your results are sorted by relevance so the best ones will appear first.
Evaluate: Critical Assessment

Quality of information & Critical Review/Analysis

Searching? Use the CRAAP test

Currency
Is the information up-to-date or still relevant?

Relevance
Does the information relate to your topic?

Authority
Does the author or organization have expertise on this topic?

Accuracy
Is the information accurate? Does the author provide evidence?

Purpose
Why was the information published? Could this affect the accuracy?

Look at:

• Article content
• Methodology & results
• Use of evidence & arguments
• Significance & contribution to field
• Writing style & organisation

Ask yourself:

• Does it support your argument?
• Does it say anything different?
• Does it give you new ideas?
• Does this fit my need?
• How will I use it?

Can’t find it in the Library?
Interlibrary loans - Content Not at MQ Library

Click on <Advanced Search> on Homepage and click on ‘INTER LIBRARY LOAN’

Then, fill in form, tick box and press <Request>
The library will get a copy and notify you
Organise: Manage Search Results

Live: Sample Search & Managing Results

• **Save search**
  Many databases allow you to set up a profile

• **Set alerts**
  When you save your search you can also set up an email or RSS alert for new items added to the database

• **Save to Reference Management Software**
  Export citations from databases
Organise: Manage Search Results
Reference Management Software

1) Collecting References
- Export from Multisearch
- Export from databases
- Export from Google Scholar
- Manually add new references

2) Storing, Editing & Organising
- Referencing Management Software (RMS) (Computer based)
- Export from Multisearch
- Export from databases
- Export from Google Scholar
- Manually add new references

3) Add References to documents
- Insert citations e.g. Cite while you Write
- Citations in your word processing document

Stand-alone bibliography

Organise: Manage Search Results

Copyright

Introduction to Copyright
What is Copyright? What it protects and how the protection works.

Copyright for research
For students and researchers
Publication agreement options

Copyright for teaching
Copyright for unit readings
Copyright for iLearn

For further assistance contact copyright@mq.edu.au

https://www.mq.edu.au/about/campus-services-and-facilities/library/copyright
Need Help?

Subject & Research Guides:
http://libguides.mq.edu.au/?b=s

LibAnswers:

Research Librarians:
• iLearn section
• Research Consultations
Thank you

We invite your comments about the training … email us at: john.elias@mq.edu.au ; jane.vanbalen@mq.edu.au