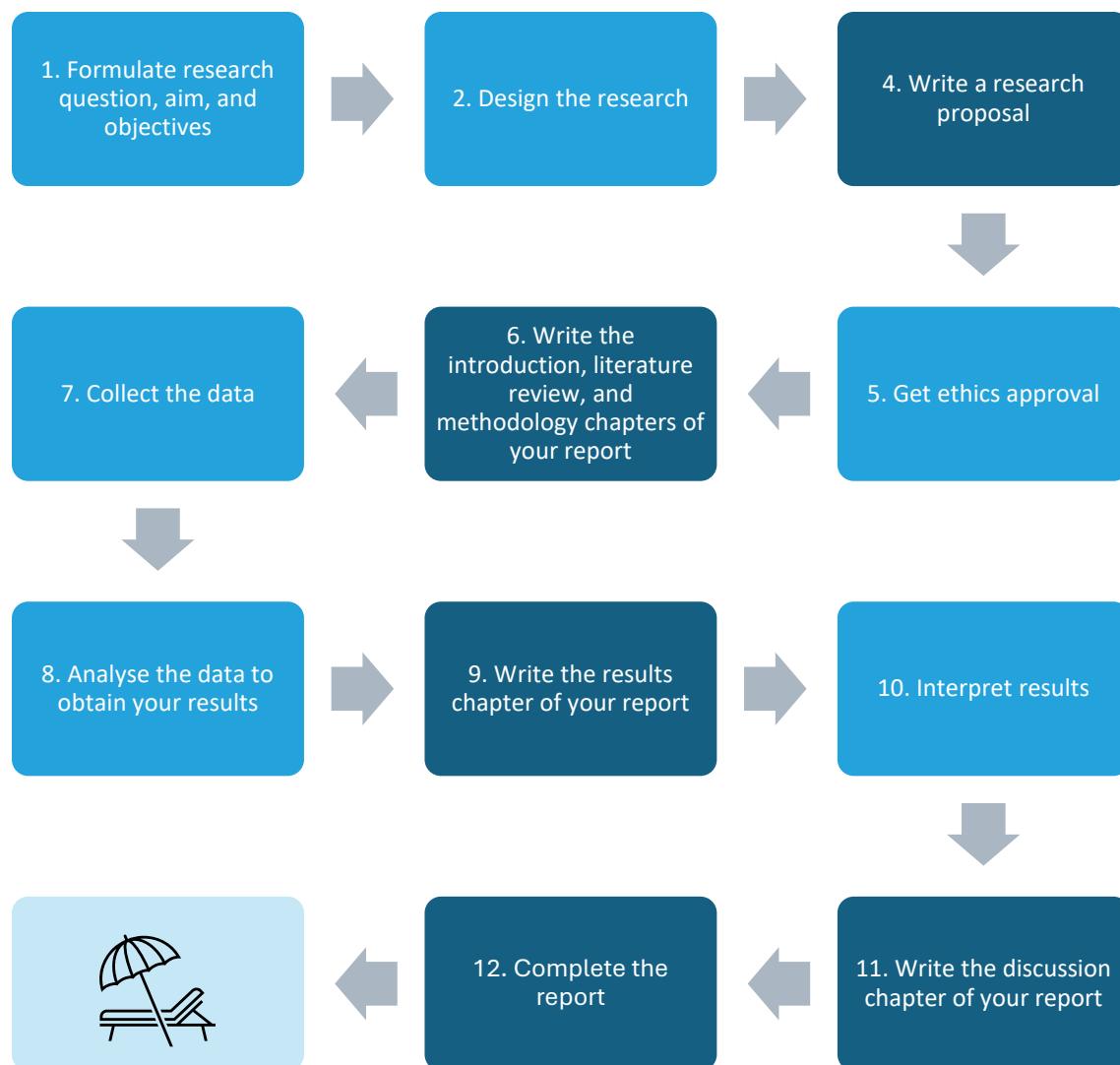


Research Process

In undertaking research you will develop

- time planning, organisational, and digital skills
- critical thinking, analytical, and problem-solving skills
- confidence in decision making
- academic writing skills

Overview of research and report writing steps



Research question, aim, and objectives



- Undertake a preliminary review of the existing literature to identify gap/s in the current research
- Consider
 - What problem or question needs addressing?
 - Why is it important (i.e., the significance of the research)?
 - How will your research contribute to addressing the problem?
 - What will be the scope of your research?
 - Who is your intended audience: Who would be interested in this research?
- Use a [framework](#) to formulate the research question, e.g., PICO, SPIDER, SPICE, FINER
- Write the research aim: One sentence outlining the purpose of your research
- Write the research objectives: Focused statements outlining what your research will achieve. Use verbs, e.g., analyse, examine, investigate, compare, evaluate, assess, measure, identify, develop, etc.

Designing research

- Justify each research design decision with **references to articles and textbooks on research methodologies. Do not copy and reference other researchers' justifications.**
- Consider the following:
 1. Which **research paradigm** is suitable and why: positivism, post-positivism, interpretivism, pragmatism, kaupapa Māori, constructivism, critical theory, etc?
 2. Which **approach** will you take and why: inductive or deductive?
 3. Which research **methodology** is suitable and why: quantitative, qualitative, mixed methods, or Indigenous? Note: Research reviews, except meta-analyses, are qualitative research.

4. Which research **methods** are suitable and why?

- Research type: e.g., case study, ethnography, experiment, literature review
- Data collection: e.g., survey, interview, focus group, literature search, observation

Note: Data collection for reviews is literature search.
- Data analysis: e.g., thematic analysis, statistical analysis

Note: data analysis for reviews is usually thematic analysis.

Collecting data

- Follow the process outlined in your research proposal
- Document each step of your data collection

Note: For research reviews, document the search terms, databases searched, number of articles returned and eliminated, and methods used to evaluate the literature.



Analysing the data

- Follow the process outlined in your research proposal
- Document each step of your data analysis

Note: For thematic analysis, state the steps used to derive your themes.
- Use tables and diagrams to help you analyse the data as needed

Interpreting results

- Consider the meaning of your results:
 - What do your results mean in relation to the research question?
 - What do your results mean in relation to the existing research?
 - What is the relevance of your results for your intended audience, or how can they be applied?
 - How do your results answer the research question?
 - How has your research met the research aims and objectives?

Completing the report

- State final conclusions and recommendations if appropriate
- Outline the limitations of your research and acknowledge biases
- Point to further research

Other relevant guides

[Research questions](#)

[Research methodologies](#)

[Research proposals](#)

[Writing a Thesis](#)

[Literature reviews](#)

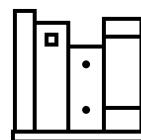
[Annotated bibliographies](#)

[Research Reviews](#)

[Contact the EIT Librarians](#)

for assistance to find books and articles on undertaking research

and research methodologies



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