

The Inquiry MAP illustrates the process of inquiry activities step by step. Let's proceed with the inquiry while checking essential items and points of caution with your team.

Step 2

Positioning of

this Research

and Previous

Studies

Have a good

the previous

research

Clearly

research

understanding of

distinguishes what

unknown in prior

The relevance to

papers to clarify what

this study is

clearly shown

Read many

is already known

Clearly identify

unknown aspects

Accurately

present prior

is known and

How to Use the INQUAIRY MAP

Step 1

Motivation and Purpose

The motivation is clearly explained purpose clearly defined The significance of research conveyed

Share with your team why this

- Understand the steps in the Inquiry Process
- •Goals = Evaluation Points: Understand what to focus on at each step
- are checked before moving to the next step



Step 5

Research

Methods

An appropriate

method for

objective

The most

multiple

suitable method

after considering

was selected

approaches

achieving the

Advice for proceeding to the next step is shown in the arrows

Return to Step 3 and repeat the same process based on a new research question (RQ)



ZONE 2 Summarizing **Experiments and Surveys**

Step 6

Presenting Results Clearly and Specifically

Use appropriate and easy-to-understand visuals (graphs, charts, etc.) to present research , findinas

Select the most appropriate visuals after considering several options

Summarize data qualitatively/quantitat

Follow

aligned with

Step 7

Validity of Research Result

Conclusions and discussions are clear and logical

Show how your findings connect to the research goals

☑ Base your discussion on logical reasoning, not intuition ✓ Read as many papers as possible and use suitable analysis methods Propose new RQs

based on your findings ✓ Propose a new research question (RQ) based on your

members should present and answer questions with consistent quality

> Fit your presentation within the allocated time

Step 8

Presentation

Techniques

confidently and

Communicate

clearly using

understand

explanation

✓ Present in your

own words, not by

reading a script

All team

Present

naturally

easv-to-

Step 9

ZONE 3 How to Present Your Research

Presentation Design

Follow poster and

slide design rules

Maintain a good

balance between

text and visuals

(charts/graphs)

required sections

Follow proper

referencing rules

□ Ensure the

clear and free of

errors

document is visually

citation and

Include all

Research Paper

Step10

Follow the structure and formatting rules

Ensure the layout is neat and frée from typos

☑Include all required sections

Maintain consistent style, define kev terms clearly, and ensure logical flow

☑ The paper should be well-structured and easy to read

Differentiate between spoken and written language in your presentation and materials.

Include additional research content in the paper that was not covered in the presentation.

★Practicing your presentation will level you up!!

★The depth of your research depends on how many times you can repeat ZONE 1 and 2. Make a well-planned schedule and aim to conduct as many experiments and investigations as possible!!



★Inquiry Level-Up Tip★

By reading many research papers and learning various analytical methods, your insights will deepen and your inquiry level will improve!

★Inquiry Level-Up Tip★ By reading many papers and gaining knowledge of various experimental and survey methods, you can take on more suitable experiments and investigations, leveling up your skills!

ZONE 1 Planning and Preparing Experiments/Surveys

Step 1

Motivation and Purpose

The motivation is clearly explained

The purpose is clearly defined

The significance of the research is conveyed

Share with your team why this theme was chosen and what you aim to clarify

Make sure your team's focus: WHY or HOW

Pick up relevant keywords for your topic

> Clarify unknown aspects connect them to RQ.

Step 3

Validity of Goals

The objective is appropriately positioned based on the research purpose and prior studies

A valid and concrete achievement

objective

Develop multiple

hypotheses based

✓ Visualize your

research methods

(e.g. for hypothesis

□ Check if the

is appropriate

scope of your goal

RQs and

testing)

on evidence

The plan is consistent with the research objectives

> Share necessary steps and plans within the team

Step 4

Planning

Able to outline

achieving the

goal

the path toward

The research is

several distinct

planned in

stages

Plan the needed materials and time for experiments /surveys

✓ Ensure your expected results align with your research goals

Focus on one

 $RQ \rightarrow form a$ hypothesis

and specify

methods

Thoroughly research existing methods used in

Confirm that ethical and safe

☑ Revise your plan preliminary results

prior studies.

your methods are

Conduct preliminary experiments /surveys to

finalize methods

★If you don't thoroughly review previous research, you might end up doing exactly the same study!!



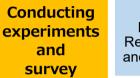
Use these

keywords to

search

papers

academic







 □ Record all
□ experimental details in a lab notebook

/ surveys according to

your plan

Do not falsify or fabricate data



All team members must read and review the "Nawate Guidelines"

Submit an Offcampus Activity Plan if conducting activities outside of school

Always communicate and report to your supervisor! ively as appropriate

conventions for writing graphs and tables









discussion and analysis



results