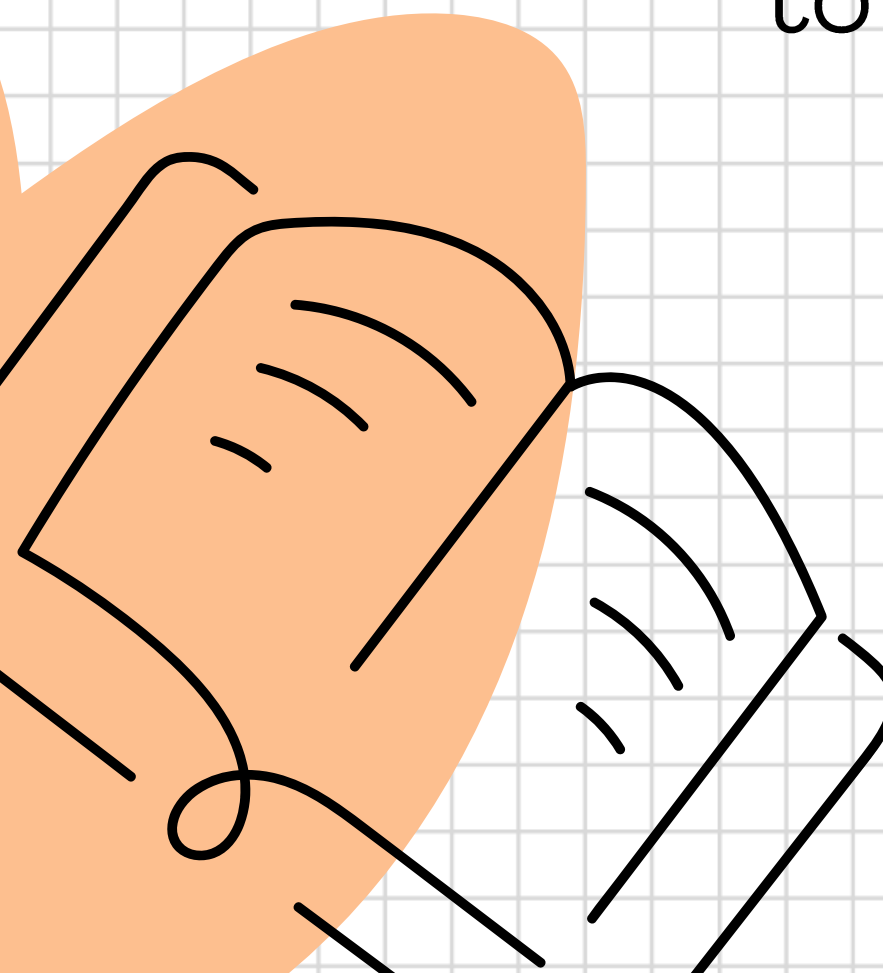
A simple line drawing of a lightbulb with a spiral base, positioned in the top left corner. The background behind it is a light purple circle.

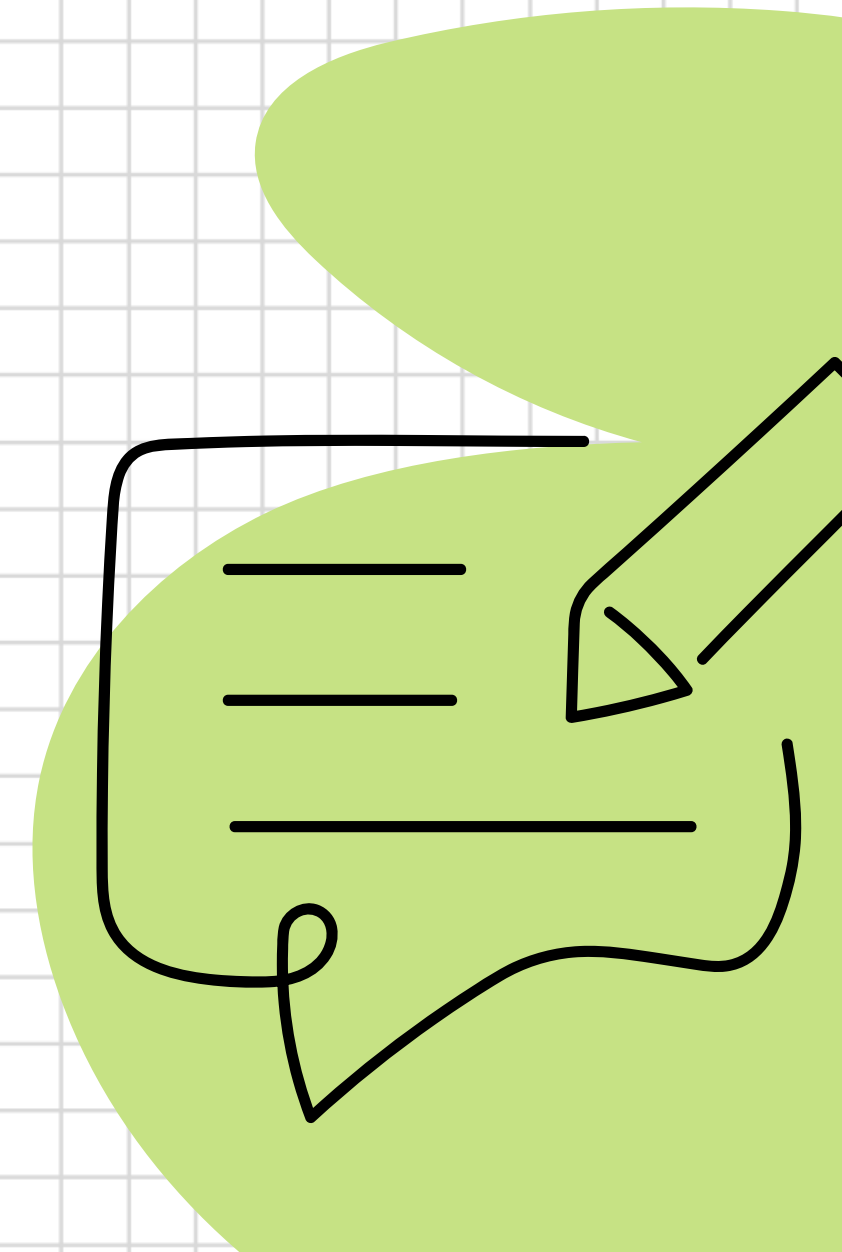
LOEX, 2024

PICTURE THIS:

Mapping and Visualizing Research Strategies
to Support Developing Researchers

A line drawing of a hand holding an open book, located in the bottom left corner. The background behind it is a light orange circle.

Dr. Trevor Burrows, Digital Initiatives Coordinator
Amy Odwarka, First Year Experience Librarian
Booth Library, Eastern Illinois University



WHO ARE WE?

DR. TREVOR BURROWS



dtburrows@eiu.edu

AMY ODWARKA



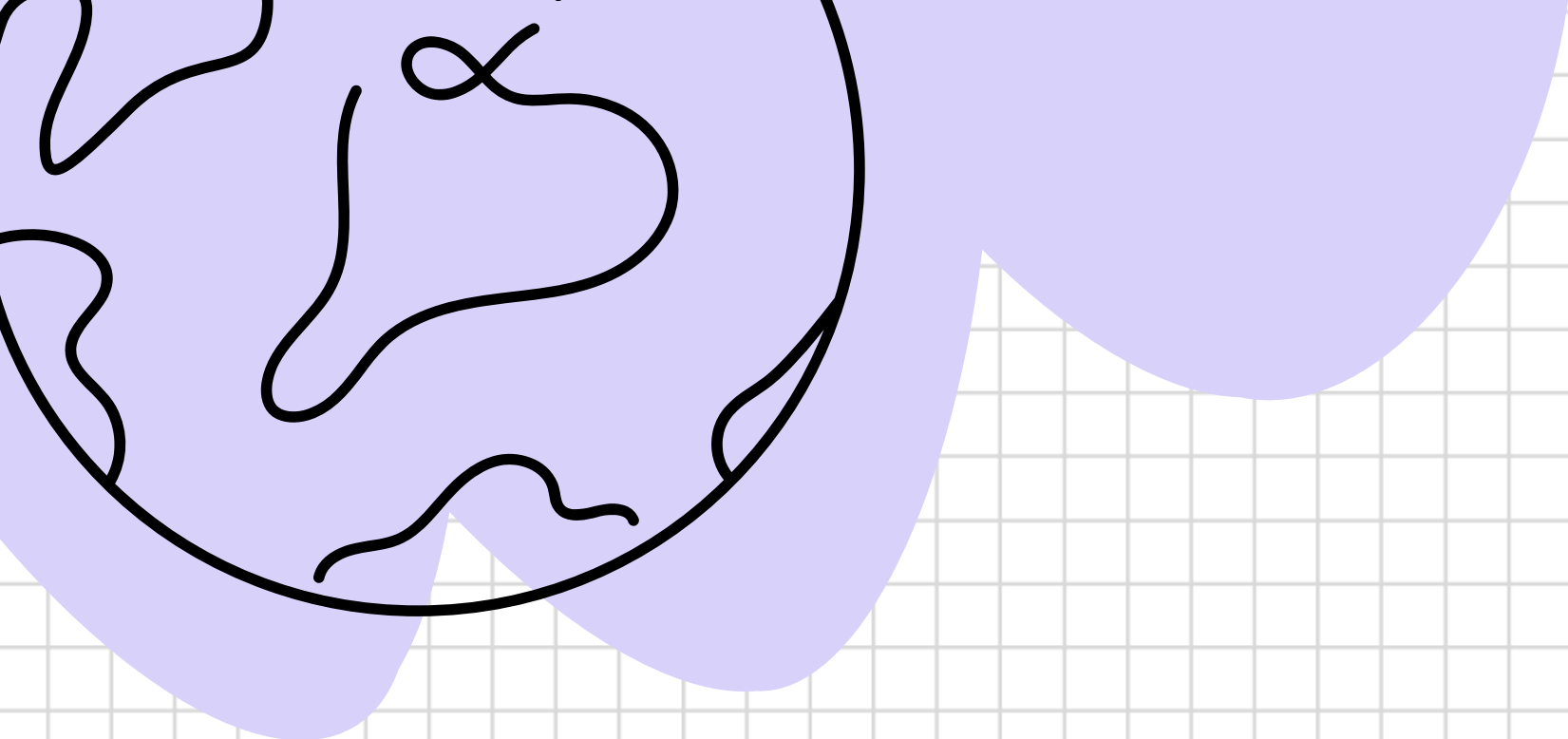
aodwarka@eiu.edu

GOALS FOR TODAY

**BUILD
BACKGROUND**

**CREATE YOUR
OWN
RESEARCH
MODEL**

**REFLECT ON
PRACTICE**



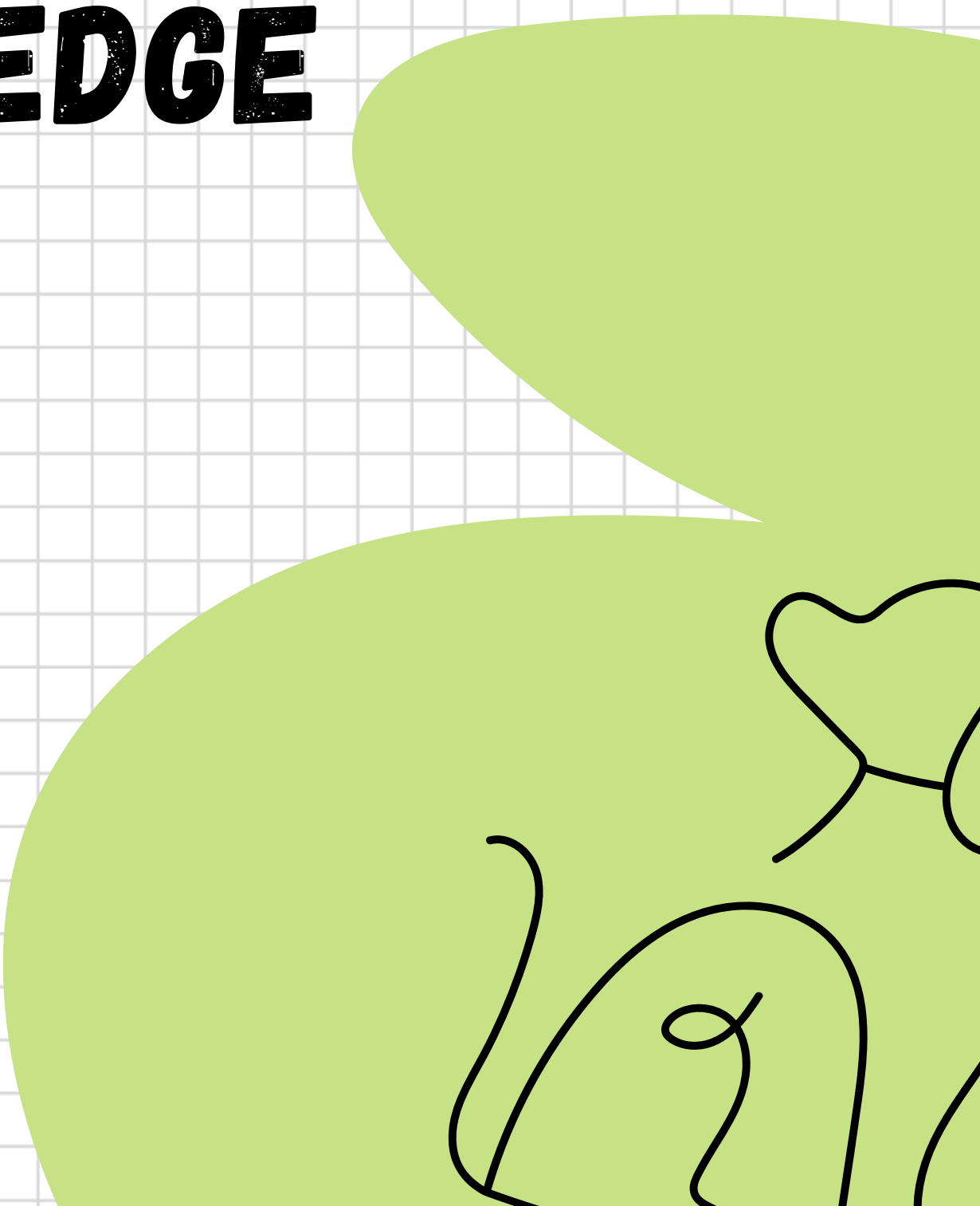
BUILD SOME BACKGROUND KNOWLEDGE

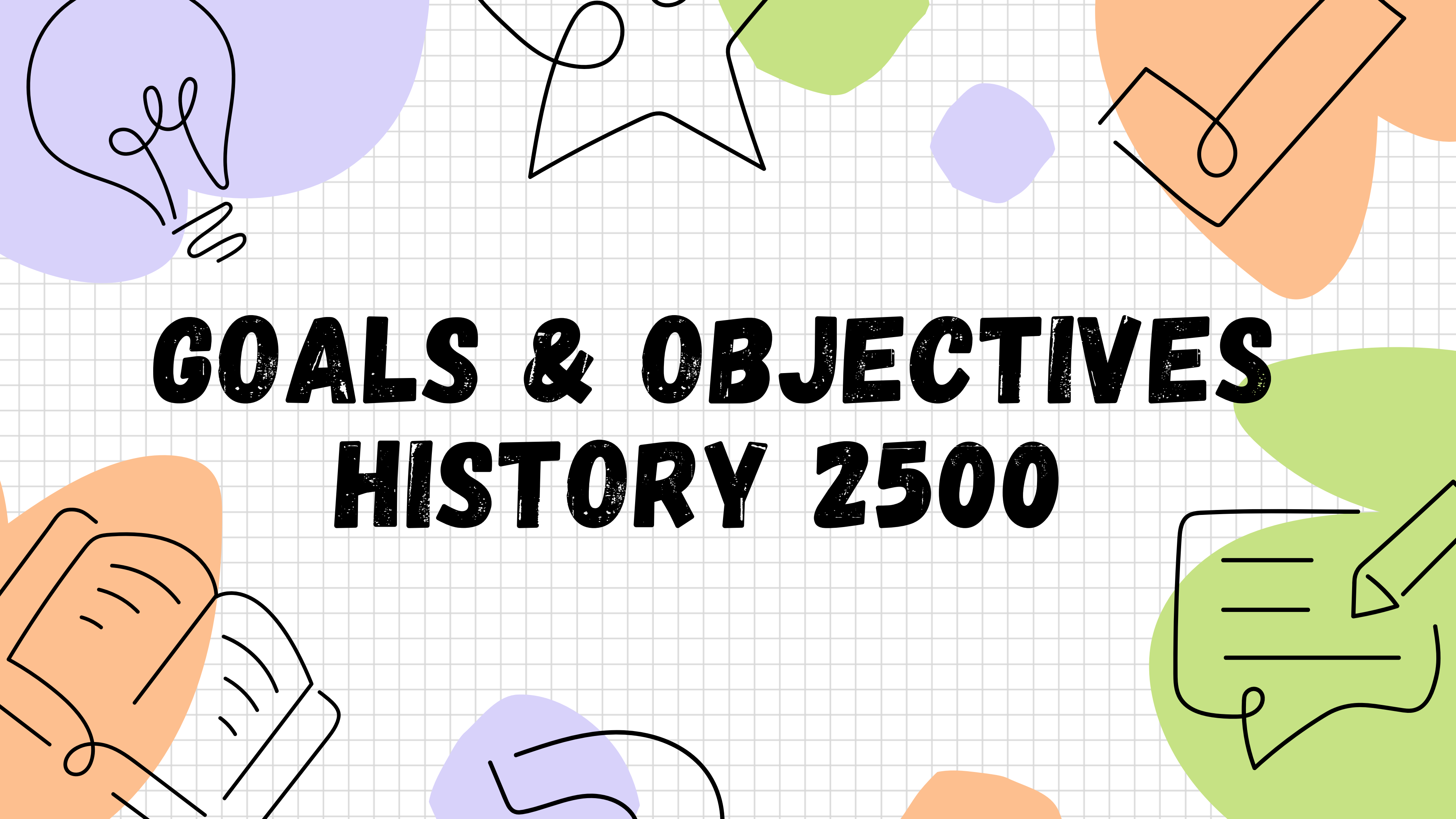
How did this all start?

Why are we doing this?

Research Q 1: How do undergraduate students change their research habits when using a personalized research model?

Research Q 2: How do undergraduate students benefit from drawing and mapping their research process throughout the course of a project?





GOALS & OBJECTIVES

HISTORY 2500



METACOGNITION & SPACE

01

We discuss the concept of metacognition and how this applies to our work

02

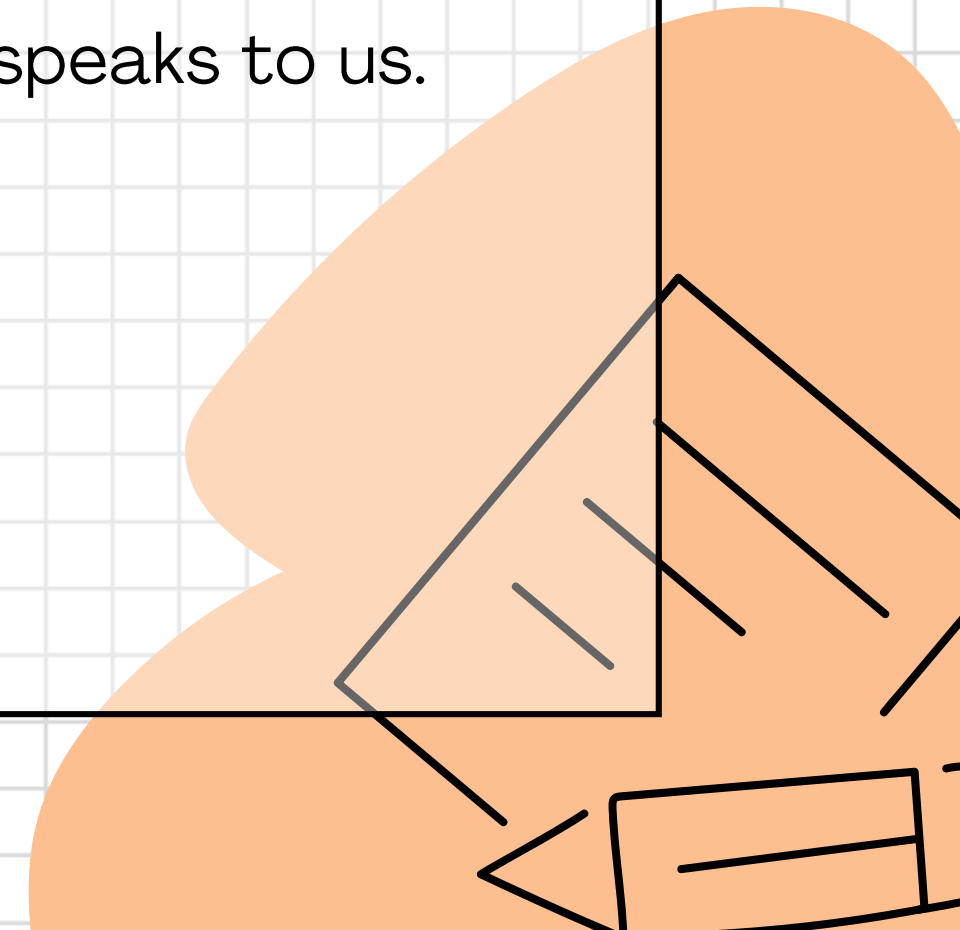
We talk about the “good, bad and ugly” of research cycles

03

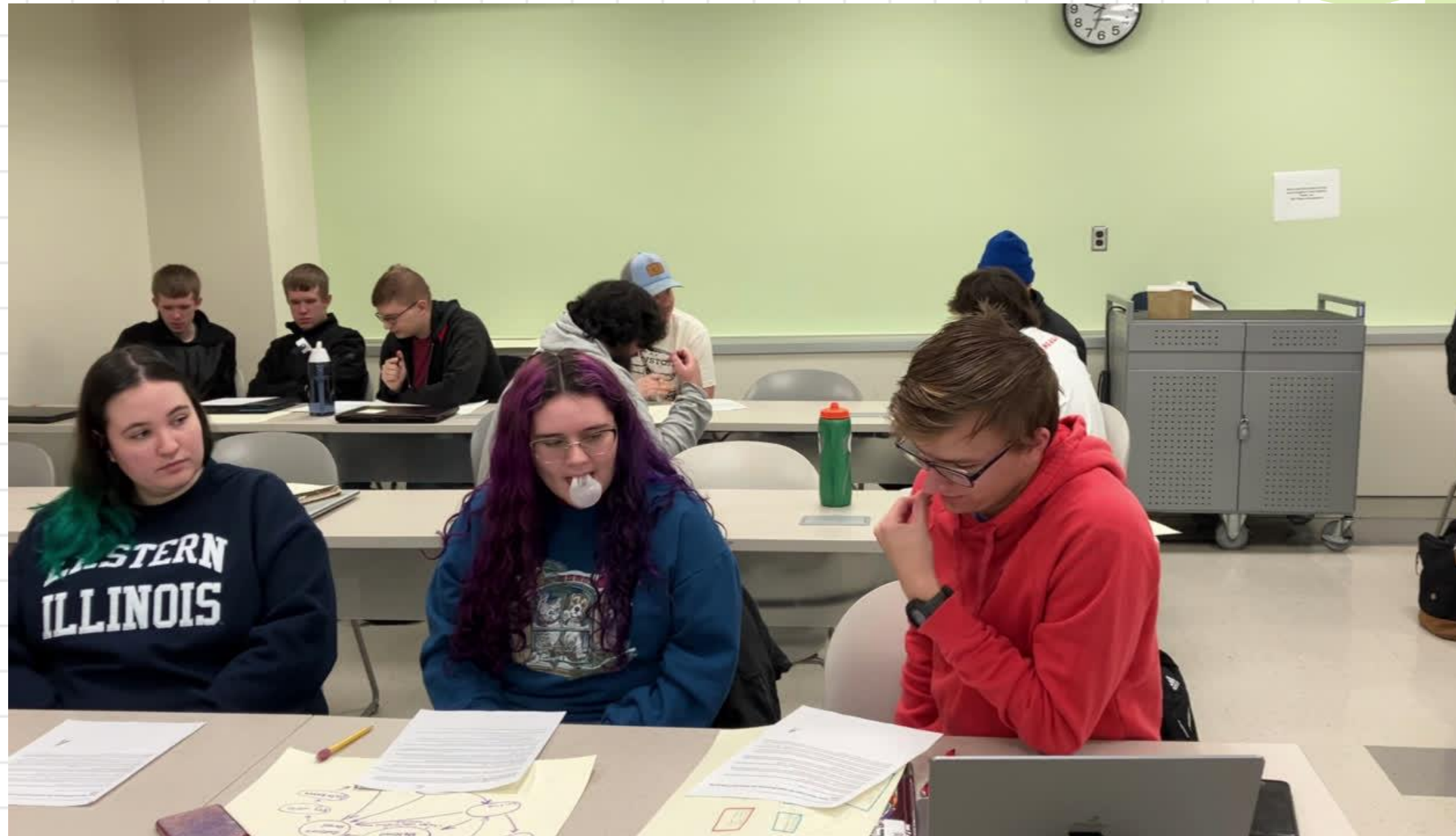
We analyze several types of research cycle models exploring similarities and differences

04

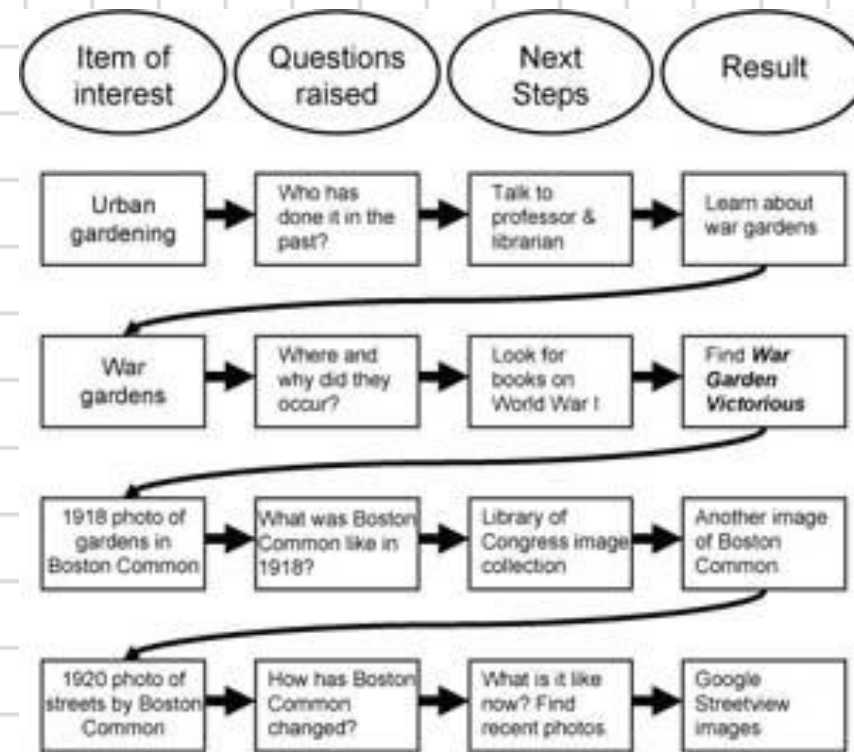
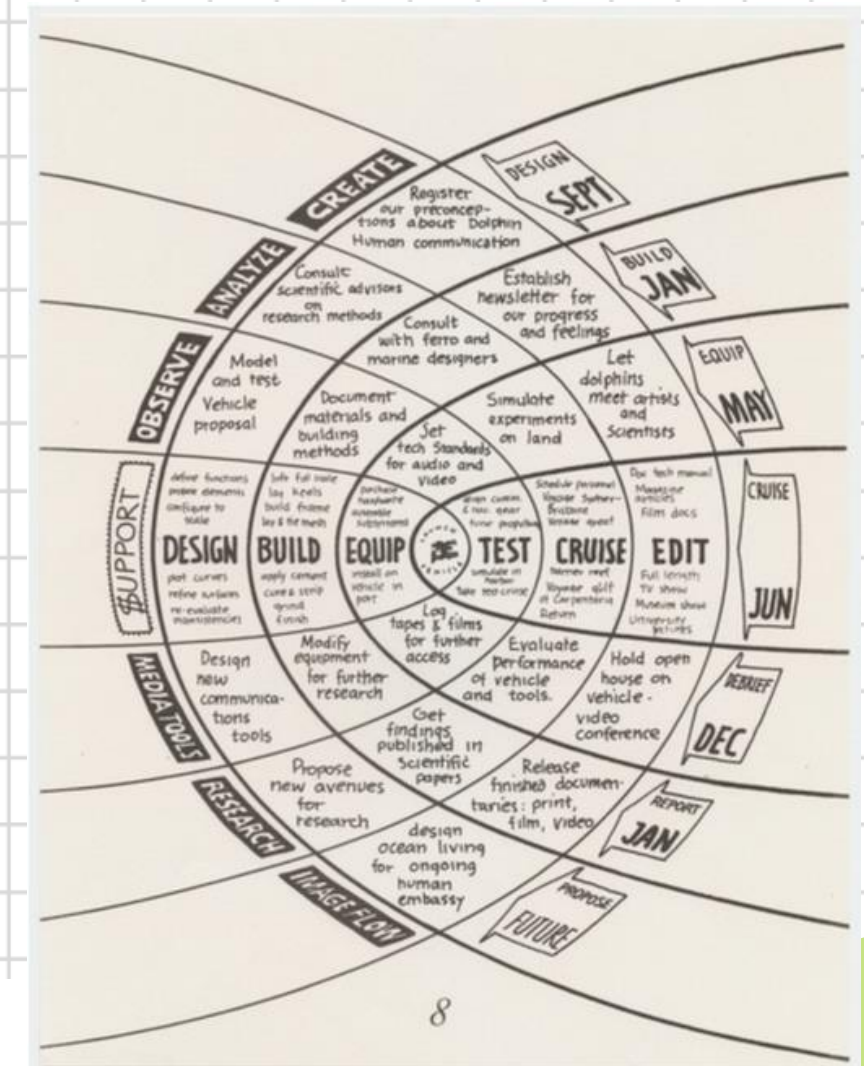
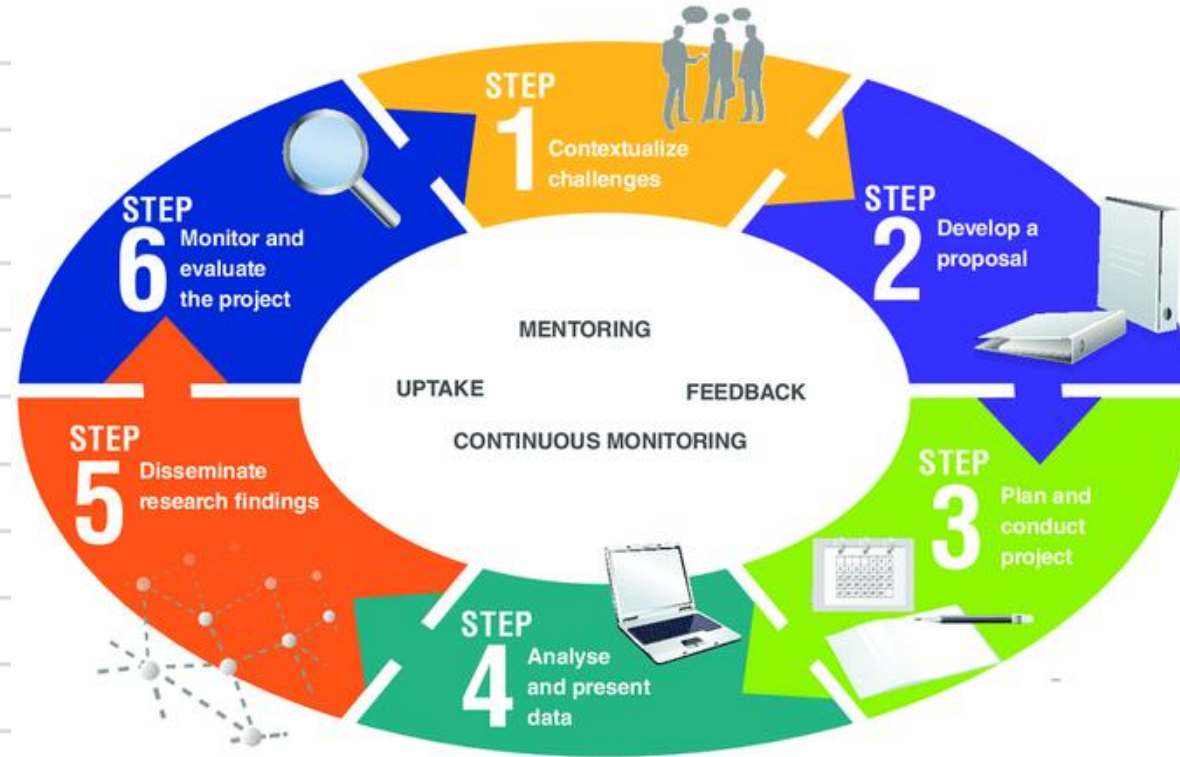
We talk again about what speaks to us.



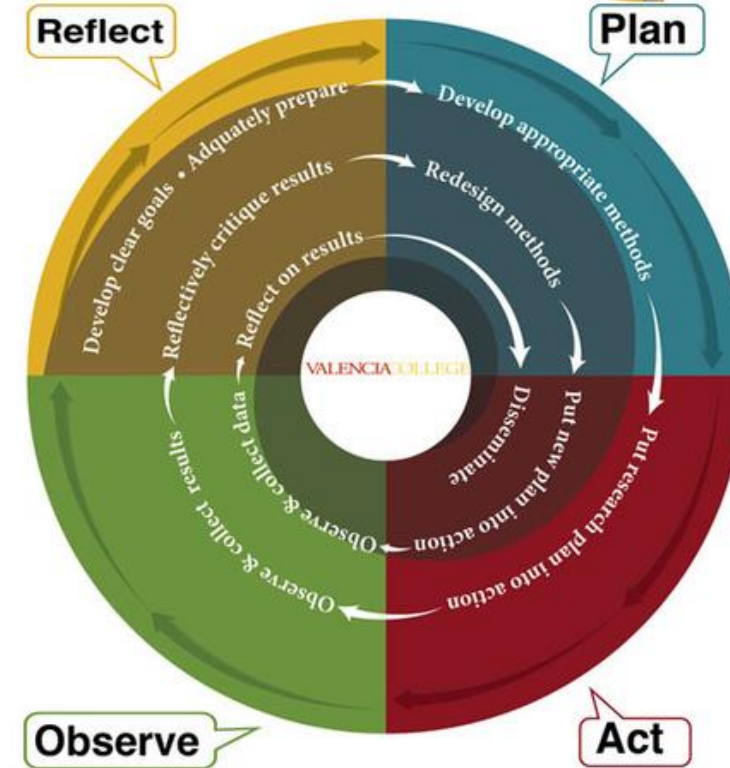
ACTIVE LEARNING ENVIRONMENT



RESEARCH CYCLE MODELS



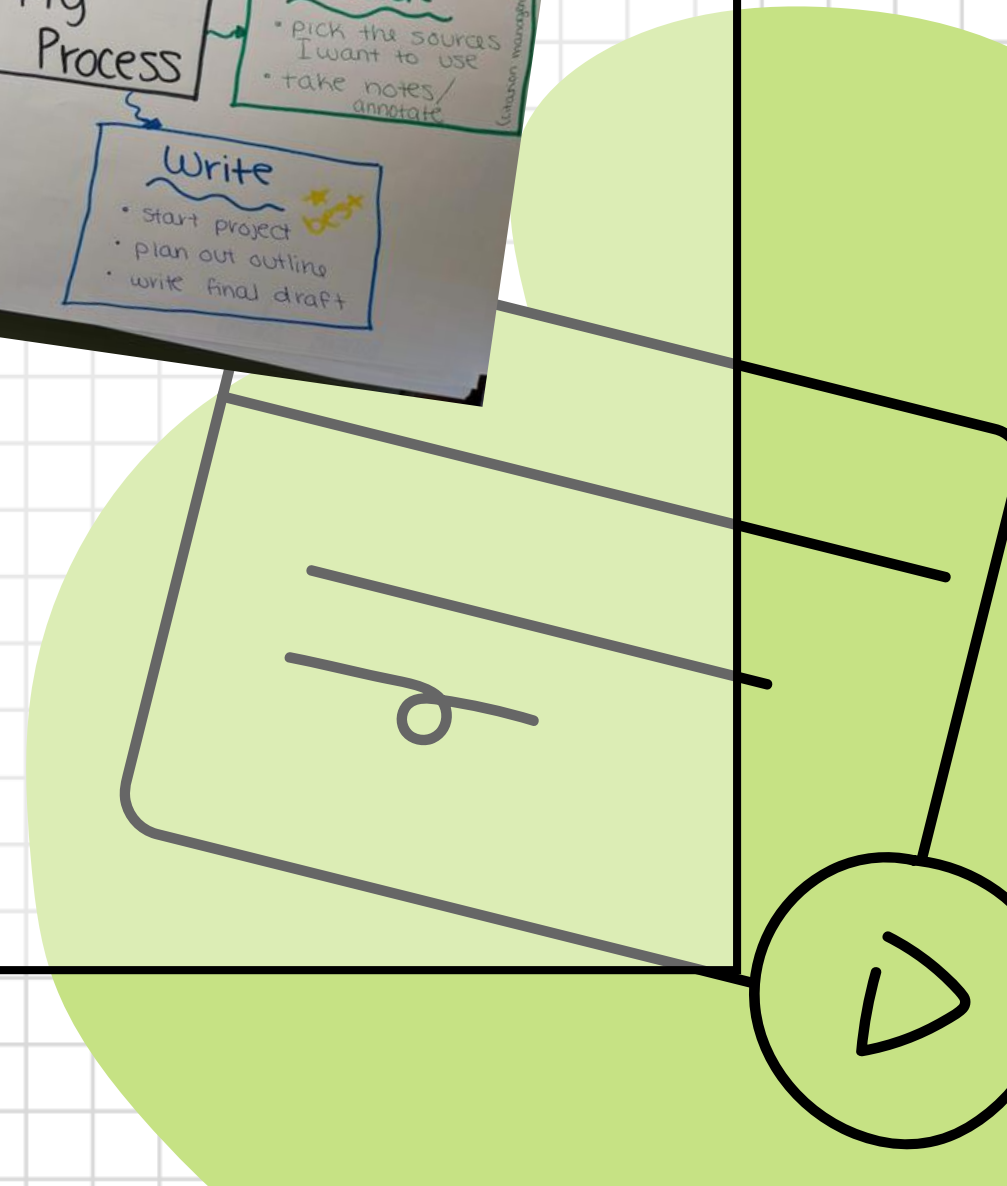
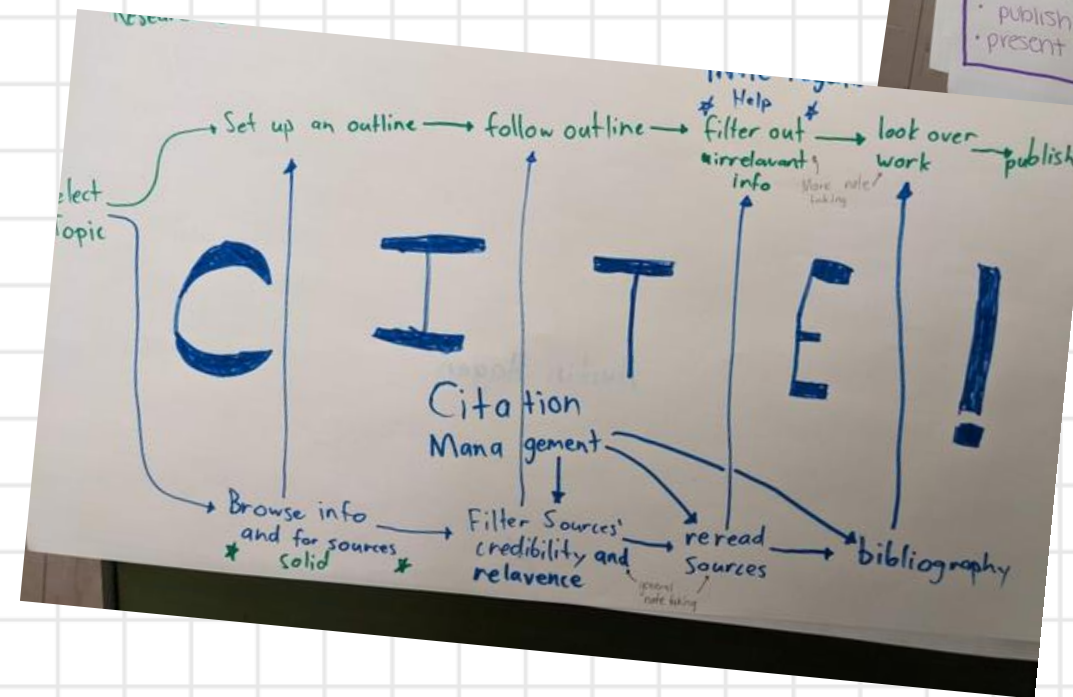
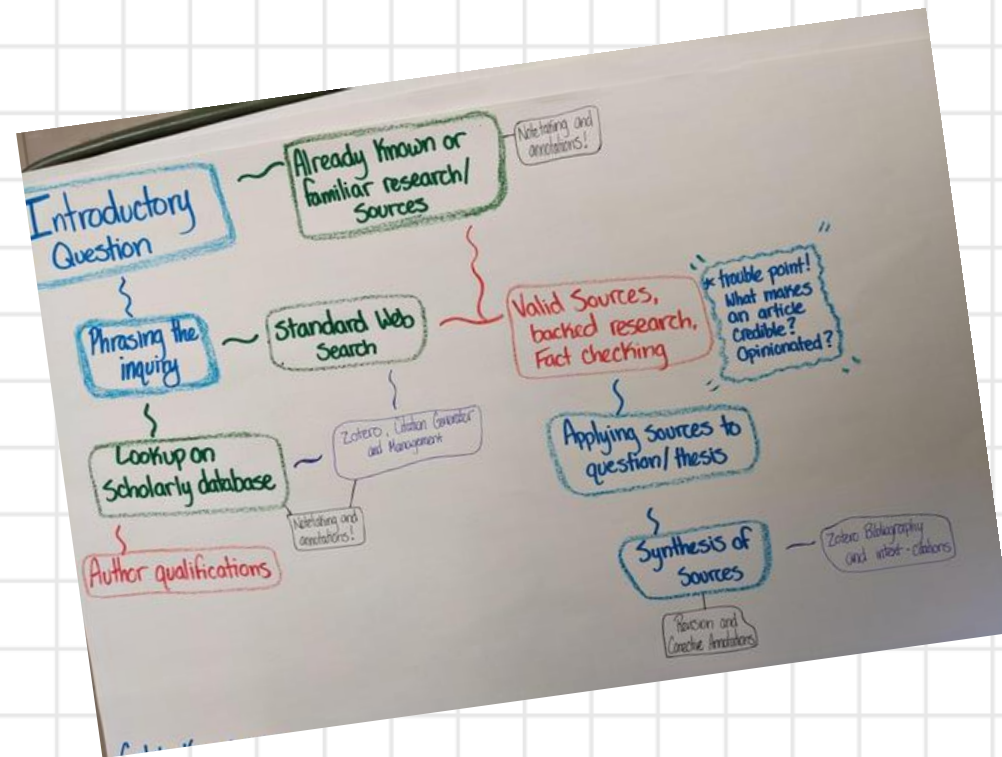
Cycle of Action Research



TIME TO DRAW

YOUR PERSONAL RESEARCH CYCLE

- Grab some markers
- Grab a BIG piece of paper
- DRAW your research cycle
- **You have 10 minutes**



HOW STUDENTS PROCESS

LIBRARY LESSONS

Citation
Management

Note taking and
Annotation

HISTORICAL RESEARCH

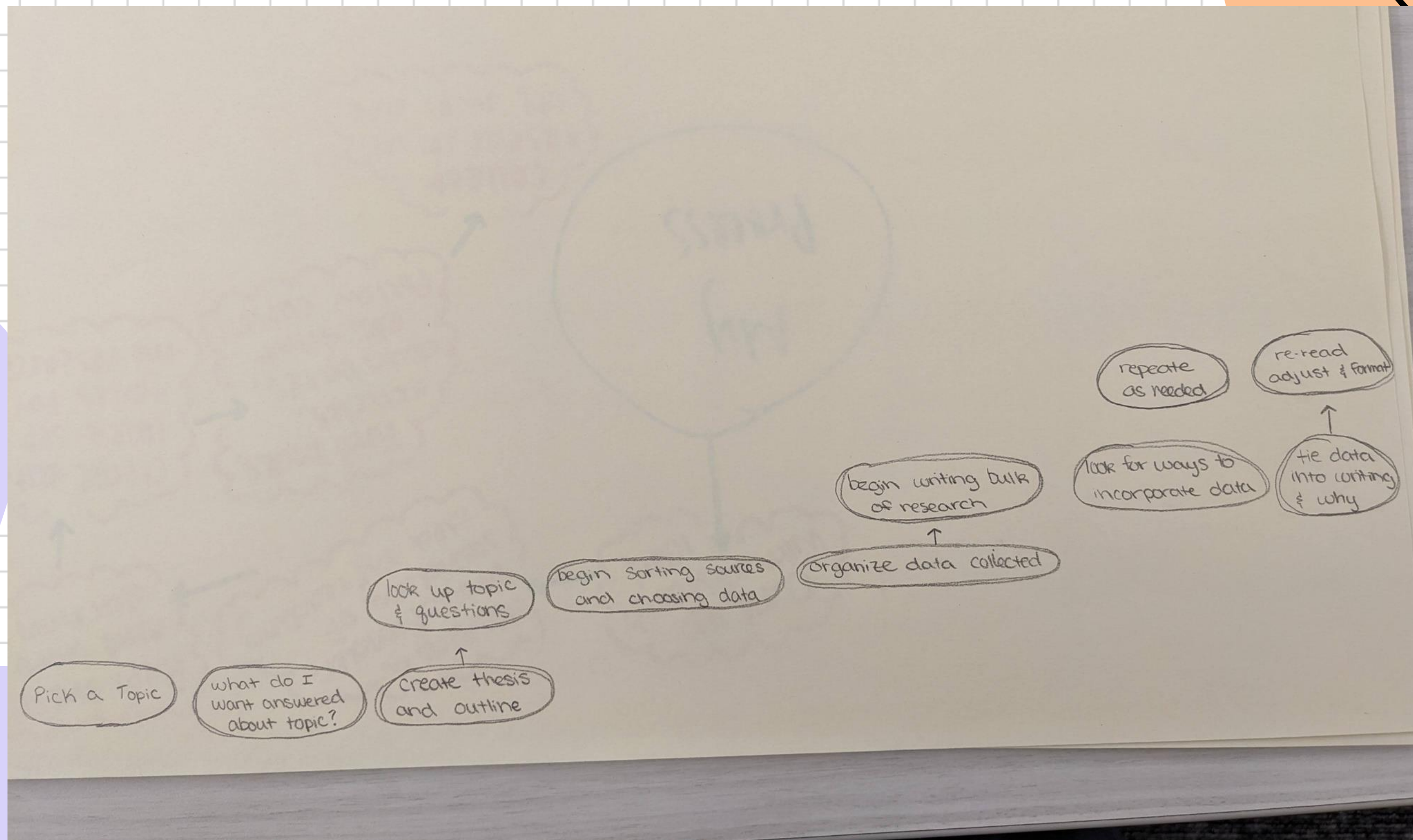
Evaluating
Sources

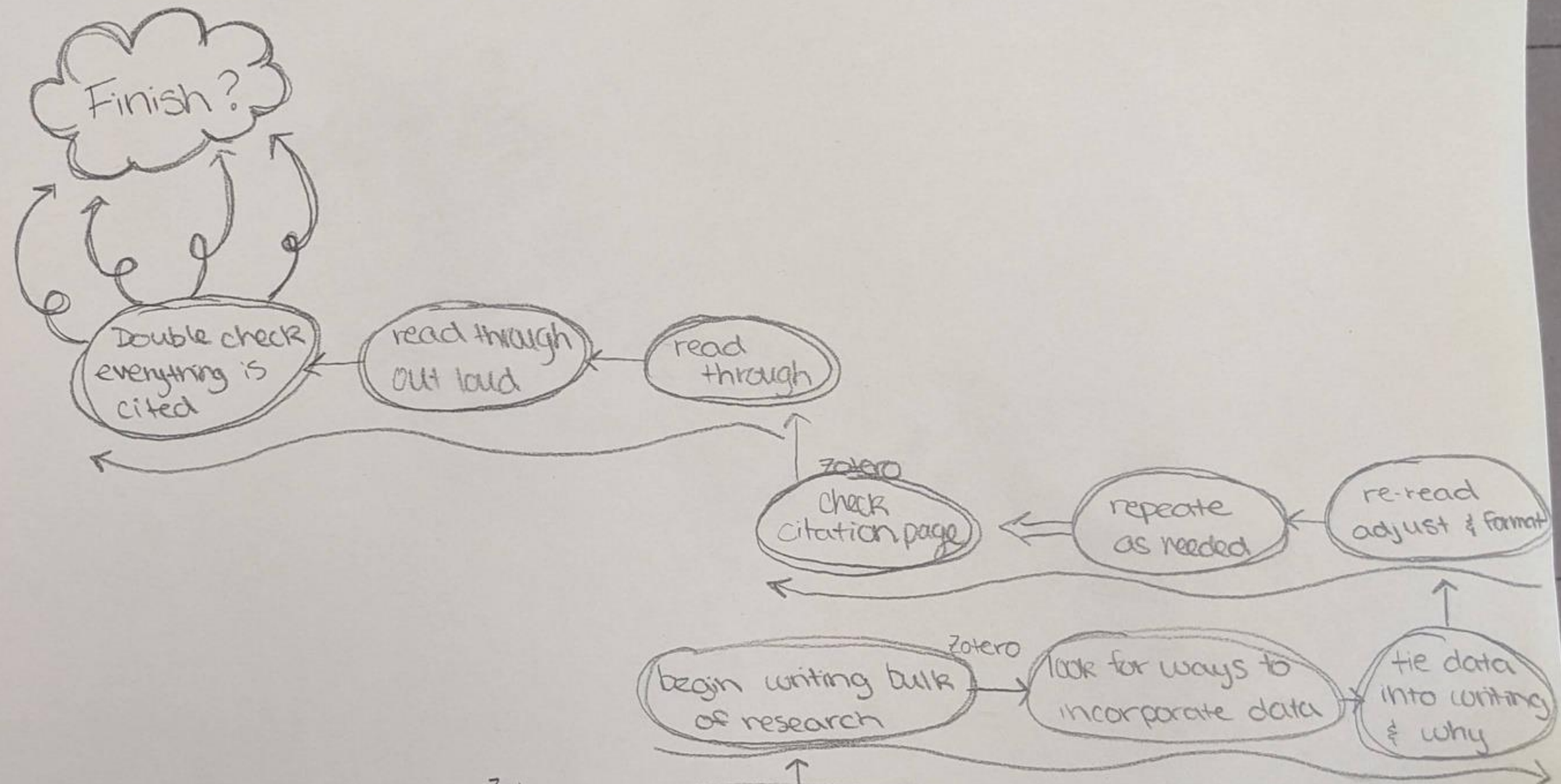
Drafting and
Revision

GALLERY WALK

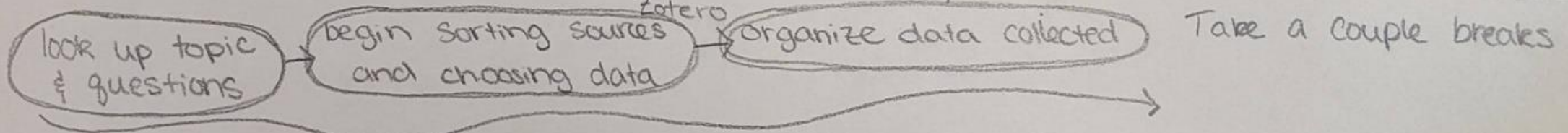
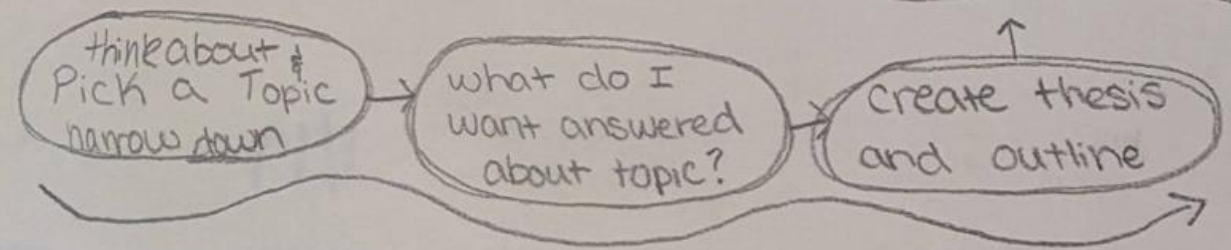


POSITIVE IMPACT





If your stuck come back later rest on the ideas



Don't be afraid to ask for help

- writing center
- library
- online resources (videos)

Finish?

Double check everything is cited

read through out loud

read through

REFER TO NOTES WHEN NEEDED

check citation page

repeate as needed

re-read adjust & format

KEEP UP WITH ZOTERO
TAKE NOTES WHEN NEEDED
WORK WITH SOURCES

begin writing bulk of research

TAKE NOTES
look for ways to incorporate data

tie data into writing & why

If your stuck come back later rest on the ideas

look up topic & questions

begin sorting sources and choosing data

organize data collected

Take a couple breaks

think about Pick a Topic narrow down

what do I want answered about topic?

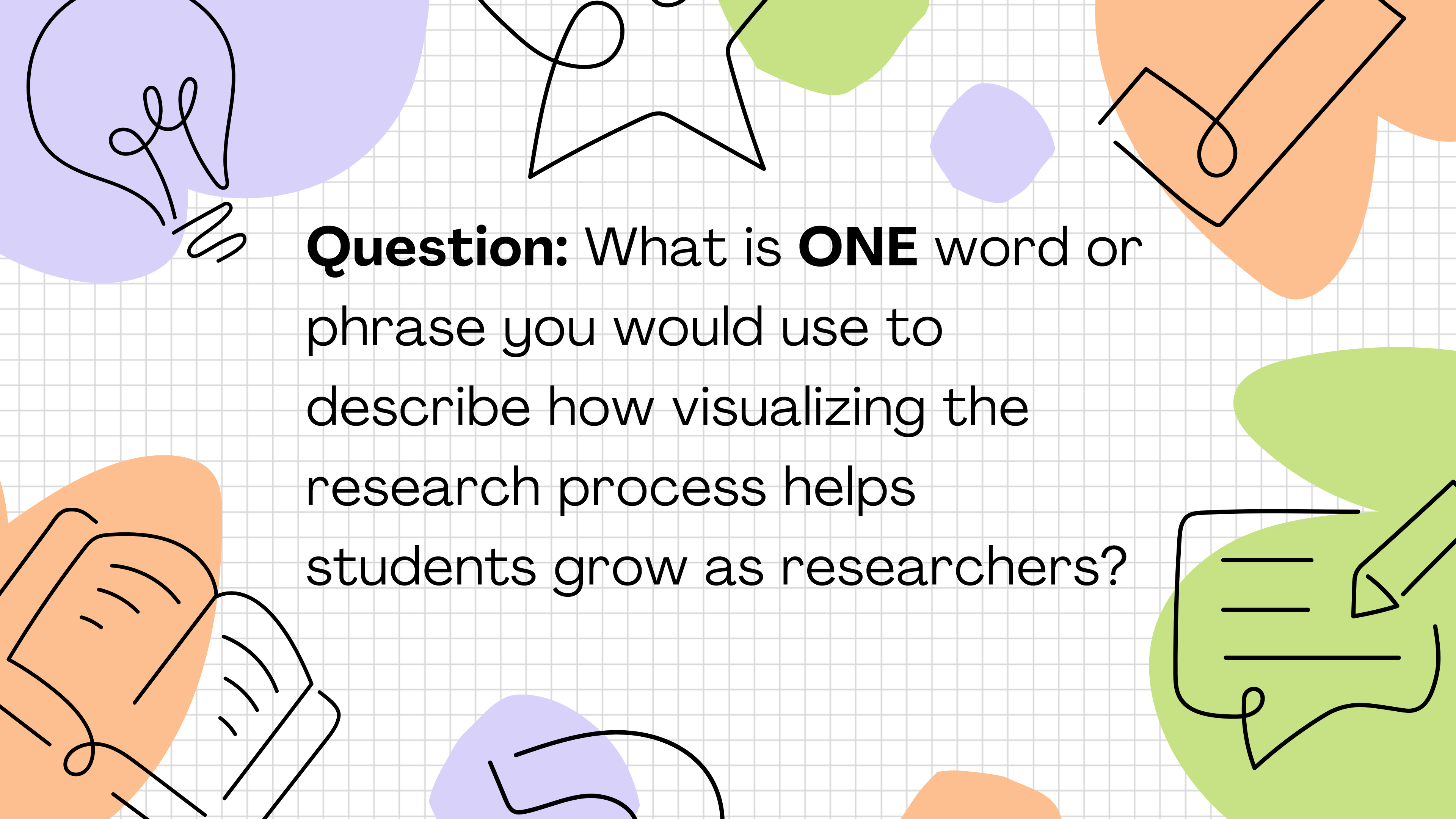
create thesis and outline

Don't be afraid to ask for help

writing center

library

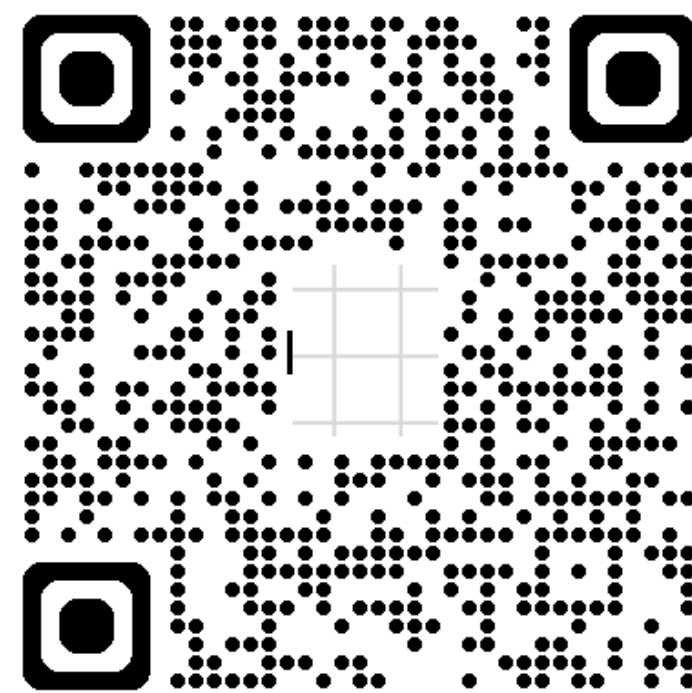
online resources (videos)



Question: What is **ONE** word or phrase you would use to describe how visualizing the research process helps students grow as researchers?

THANK YOU!

Learn more here!





WORKS CITED

Ant Farm. (1976). *Design, Build, Equip, Test, Cruise, Edit (Ant Farm Timeline)*. [University of California, Berkeley Art Museum and Pacific Film Archive](https://collection.bampfa.berkeley.edu/catalog/cd31aa56-9343-40a1-8e05). <https://collection.bampfa.berkeley.edu/catalog/cd31aa56-9343-40a1-8e05>

Asking Good Questions—Learning Historical Research. (n.d.). Retrieved May 20, 2024, from <https://www.williamcronon.net/researching/questions.htm>

Gyapong, M., Najjemba, R., Kamau, E. M., & Ogundahunsi, O. (2014). *Implementation Research Toolkit*. World Health Organization.

Hammond, Z. (2015). *Culturally responsive teaching and the brain : promoting authentic engagement and rigor among culturally and linguistically diverse students*. Corwin, a SAGE Company.

Syansul Nor Azlan, M.. (2016, October 25). Topic 0002: Steps in the Research Process. <https://snazlan.wordpress.com/2016/10/25/steps-in-the-research-process/>

Teaching and learning academy. (n.d.). *Elements of an Action Research Project*. Valencia College. <https://valenciacollege.edu/faculty/development/teaching-learning-academy/action-research/elements.php>