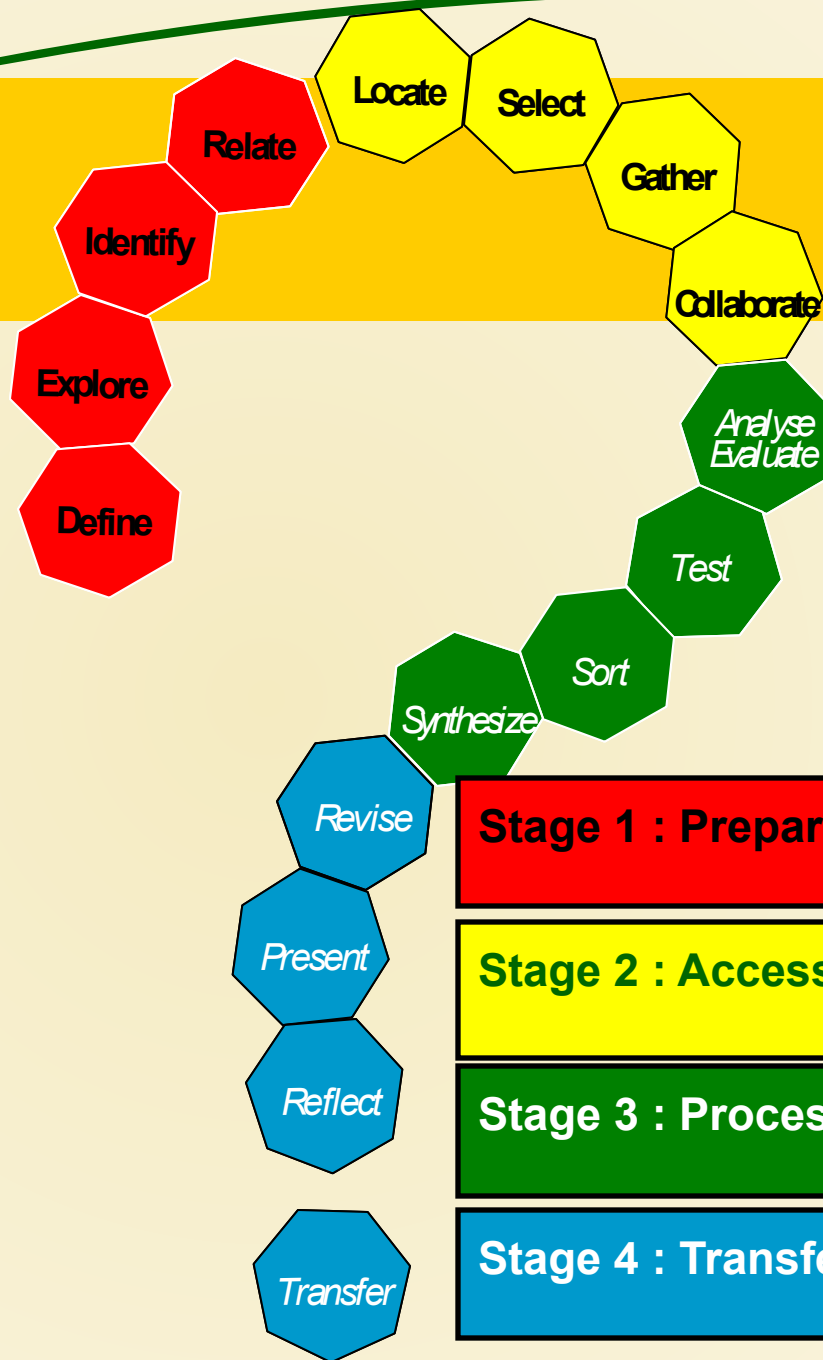


The Four Stages of Inquiry and Research: A Student Guide

- 1. Preparing for Research**
- 2. Accessing Resources**
- 3. Processing Information**
- 4. Transferring Learning**

The Process of Inquiry and Research

OSLA MODEL



STAGE 1 ~ PREPARING FOR RESEARCH



↳ *Define*

↳ *Explore*

↳ *Identify*

↳ *Relate*



Stage 1 ~ Preparing For Research

- ***Define research requirements***
 - **What does the assignment require? When is it due? What are the sub-tasks required? How will my learning be communicated/presented? How will I be evaluated?**
- ***Explore a topic***
 - **Brainstorm / talk / mind map / word map / cluster / focus**
- ***Identify questions you want to answer***
 - **A search for answers guides research / leads to a thesis**
- ***Relate keywords***
 - **Cluster search terms into concepts / topics. Spelled correctly?**

STAGE 2 ~ ACCESSING RESOURCES



↳ *Locate*

↳ *Select*

↳ *Gather*

↳ *Collaborate*



Stage 2 ~ Accessing Resources

Successfully access a wide variety of resources

- ↗ What **keywords** string together for successful searches?
- ↗ What **tools** can be used to access resources?
- ↗ What information sources **match** your inquiry needs?
- ↗ What are the **best** and **most suitable** resources?

STAGE 3 ~ PROCESSING INFORMATION



★ *Analyze*

/Evaluate

★ *Test*

★ *Sort*

★ *Synthesize*

Stage 3

PROCESSING INFORMATION

Key Questions

- 1) How do I **identify information** that is **relevant**?
- 2) How do I **extract relevant** information?
- 3) What are the **qualities of good** notes?
- 4) What is **honest** use of information?
- 5) What is **dishonest** use of information?



Before you start processing

Review your assignment again!

- ↳ Are you sure you know what the assignment requires?
 - Review the length and scope of the assignment.
 - Review the due dates.
 - Review how you will be evaluated.
- ↳ How will you **present the results** of your research?



Before you start processing

- **Review the mission of your task again!**
- **Review Stage 1: *Preparing***
 - ↳ What is your Focus - **topic** and **research question**?
 - ↳ What did an **overview** tell you about your topic?
 - ↳ How did you break your topic into **smaller parts**?
 - ↳ Did you have to choose a **thesis** to research?

Before you gather information

- **Review Stage 2: *Accessing Resources***
- **Look over the list of possible resources.**
 - Books** -**Newspapers** -**Internet**
 - Online Databases** -**Experts** -**Places to visit**
 - ↳ What information sources **matched** your info needs?
 - ↳ What were the **best** and **most suitable** resources?

Stage 3 ~ Processing Information

THINK CRITICALLY

- Question the relevance of the information.
- Question the accuracy of the information.
- Question the authority of the information.
- Question the point-of-view of the information.
- Question the fairness of the information.

AS YOU

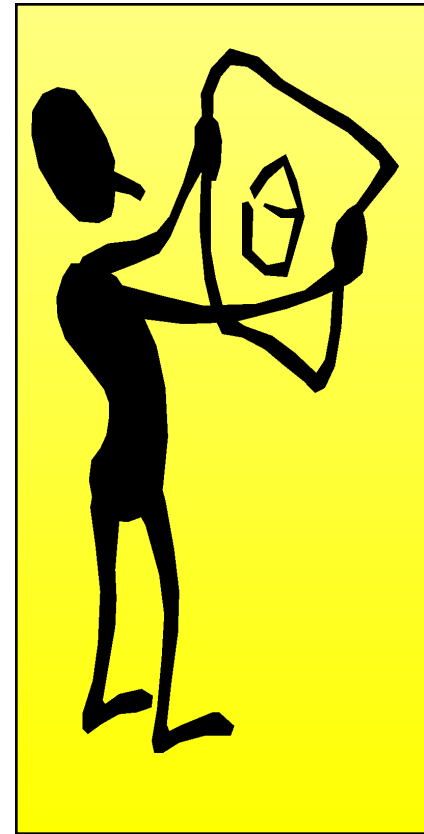
- ☺ LISTEN
- ☺ OBSERVE
- ☺ READ
- ☺ VIEW
- ☺ REFLECT

ACTIVELY INTERACT WITH THE INFORMATION

● What is the mission for your information search?

● How do you decide what is relevant?

- The information links directly to sub-topics.
- It fits into a note-gathering chart.
- Be prepared to skip what you don't need.
- Decide what is critical to your task.
- Every note must be related to your task.

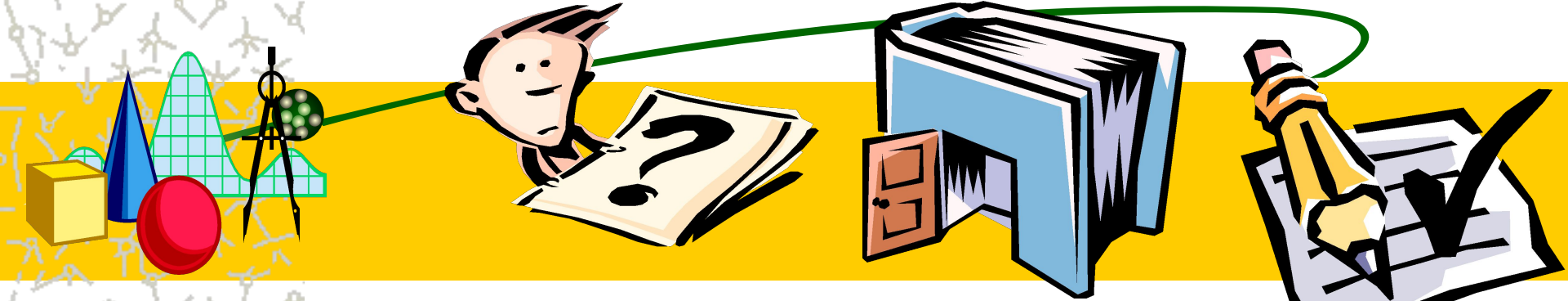


HOW TO RECORD INFORMATION

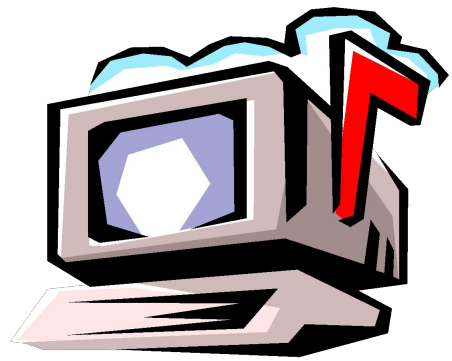
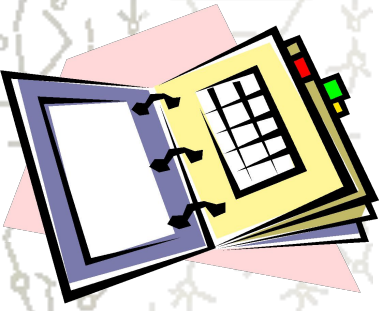
- Record from a selection of suitable resources:
 - videos, paintings, field trips, books, interviews, surveys, internet, electronic databases
- Record information in different ways:
 - quality jot notes, diagrams, graphs, charts, numbers, graphic organizers
- Record balanced views. Record main ideas. Record reflections.

RECORD ALL SOURCES!

You may own a note but not the source!



- **EVERY NOTE MUST BE RELATED TO YOUR INFORMATION NEEDS.**
- **RECORD YOUR OWN IDEAS AS YOU THINK OF THEM.**



IMPOSE LIMITS

- **There is a time to stop searching and recording.**
- **Review your progress and fill in any gaps.**
- **There is a time to start preparing your final product.**

In this era of *Information* learn to sift through masses of information to meet your needs.

HONEST USE OF INFORMATION

- Demonstrate critical **interactive thought**.
 - You may own the notes but not the source.
- **Record your own thoughts as you think of them.**
- Record all reference data, including page numbers.
- Select relevant quotations. Limit the number of quotations.
 - Copy accurately within quotation marks.
- **Paraphrase and summarize. Document the source.**
 - Do not alter the **sense** of the original.

***Academic Honesty* demands that you document what you borrow.
(*Plagiarism* is failing to acknowledge the source.)**



INTERACT WITH THE INFORMATION RESEARCH AS AN ACTIVE THINKING PROCESS

- ☺ Think about, and say the information aloud.**
- ☺ Have an argument with the author.**
- ☺ Impose a limit of 8 words per information bit.**
- ☺ Use post-its to record notes.**
- ☺ Write in the margin of printouts.**
- ☺ Record a visual ‘note’.**
- ☺ Record a mind-map that is colour coded.**
- ☺ Record the information into an organized chart.**
- ☺ Use skimming and scanning techniques.**
- ☺ Record your own ideas and reflections.**
- ☺ Discuss the information with different people.**

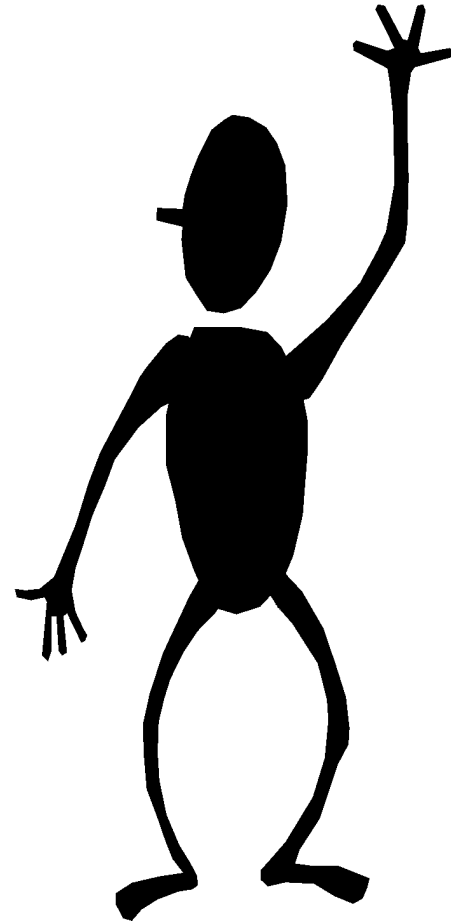
STAGE 4: TRANSFERRING LEARNING

 **Revise**

 **Present**

 **Reflect**

 **Transfer**



STAGE 4

Transferring Learning

Consider Needs and Constraints of:

- **The assignment:**
requirements/evaluation
- **Time:** preparation/presentation
- **Resources:** equipment
- **Format:** visuals, oral, written, electronic /combination)
- **Audio-visual aids**
- **Software tools/ techniques**
- **Tap strengths and interests**
- **Organize presentation**
- **Practice presentation skills:**
voice, gestures, eye contact,
- **Demonstrate knowledge of topic based on solid research and thought**
- **Demonstrate use of communications technologies**

Audience is the Key



Reflection: Building for Transfer

- 1) How well did I organize my research and time?**
- 2) What were the main strengths of my inquiry?**
- 3) What were the problems? How did I solve them?**
- 4) Did I use all the resources I might have?**
- 5) How well did I use computers for learning?**
- 6) How well did I work with others? ... on my own?**
- 7) Did I document my sources accurately and correctly?**
- 8) In what ways was this research important to me?**
- 9) What new topics would I like to explore?**
- 10) How will I apply what I learned to other inquiries?**



Reflection: Building Lifelong Learning Skills

To become a lifelong learner, you must be able to:

- Recognize the need for information to solve problems and develop ideas
- Pose important questions
- Use a variety of information gathering strategies and research processes
- Locate relevant and appropriate information
- Assess information for quality, authority, accuracy, and authenticity
- Use information technology tools
- Format and publish in text and multimedia, adapting to emerging technologies