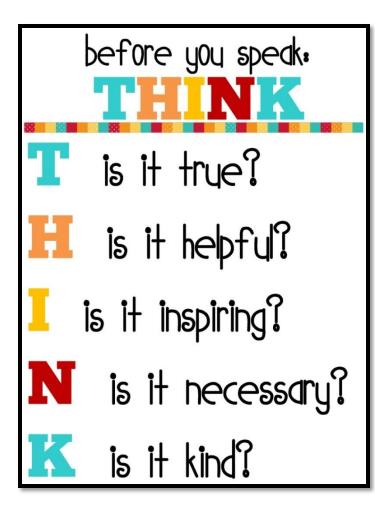


## **RESEARCH PROCESS**

- >Thinking & observation
- >Identifying Evaluating And Formulating The Research Problem
- **Extensive Literature Survey**
- ≻Writing a Primary Synopsis
- ≻Identifying and Labeling Variables
- >Setting up of Hypothesis
- >Preparing the Research Design
- > Determining the Sample Design
- **Collection of Data**
- **Execution of the Project**
- Processing Analysis & Interpretation of data by Statistical Methods
- >Testing of Hypothesis
- >Preparation of the Report or Thesis







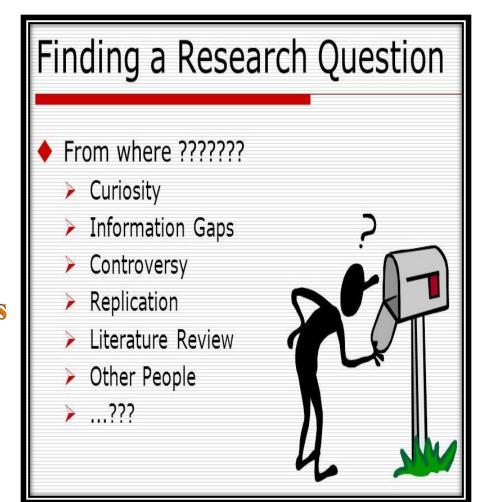




#### IDENTIFYING EVALUATING AND FORMULATING THE RESEARCH PROBLEM

- 1. Choose a correct problem
- (a)Researcher's Familiarity
- (b) guidance
- (c) personal Interest
- (d) Availability of data

2.Formulate the problem 3.Understanding and evaluating 4.Rephrase into meaningful terms BY Discussing the problem with colleagues &Persons with experience



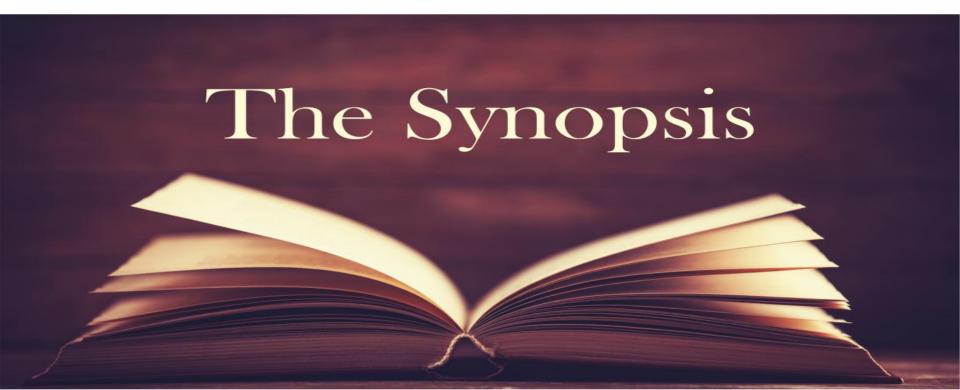
### **EXTENSIVE LITERATURE SURVEY**

- **\***All available literature
- **1. Conceptual Literature: Concepts & theories**
- 2. Empirical Literature : Earlier Studies (Facts & Figures)

This zone will help	you with
homework and p	projects.
Click the subjects	a on the
Bookshelf, or use	the Web
Search to find the	Maths English
from the inter	Science History
	Geography ICT Art / Design RE

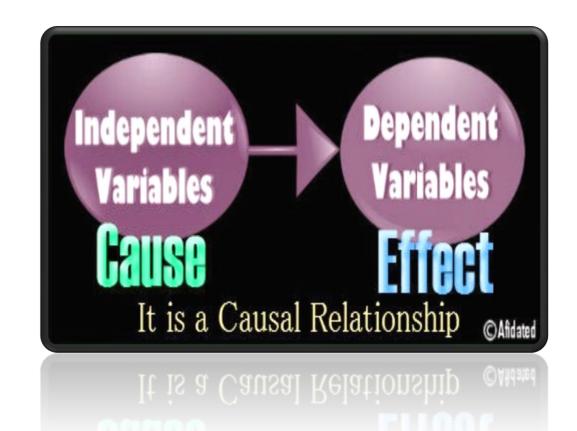
## Writing a Primary Synopsis

- 1. Summary of what is going to be done under research
- 2. Academic Journals, Conferences, Proceedings, Government Reports Books etc
- 3. Earlier Researches
- 4. Personal documents, Public documents, Copy drafts





Cause & effect relationship between variables
Independent variable : Whose change has effected the other
Dependent variable : Variable which has the effect







Tentative conclusion logically drawn
Specific and Limited to the scope of research



# PREPARING THE RESEARCH DESIGN

Is a plan that specifies the sources and types of informationThe approach gathered for the problem

- ≻Time & cost budget
- ≻What to do, when to do,
- ≻Minimum expense & minimum time

#### Contains

- Clear statement of research problem
- Procedure and techniques to be used for gathering information
- $\succ$  population to be studied
- > Methods to be used in processing and analyzing the data



# **DETERMINING THE SAMPLE DESIGN**

 ✓ It is a definite plan determined before any data are actually collected for
 ✓ obtaining a sample from a given univers

Methods ✓ Simple random sampling ✓ Stratified sampling ✓ Systematic sampling



# **COLLECTION OF DATA**

Observation method Direct personal interview method Telephone interview method questionnaire method Schedule method

Choice depends on ≻Nature of investigation ≻financial resources ≻Time ≻Accuracy



## >EXECUTION OF THE PROJECT

# Executed in a systematic manner If questionnaire ,interview Statistical control techniques



#### PROCESSING ANALYSIS & INTERPRETATION OF DATA BY STATISTICAL METHODS

Classification ,tabulation & coding

Condensed into few manageable and purposeful groups and tables

- Coding converts data into symbols and small figures
- Editing improves quality
- ✤Irrelevant dropped
- ♦ Observation ,analysis, conclusion, induction & deduction.
- Averages co-effcient of correlation
- \*Analysis of variance test of significant difference



# **TESTING OF HYPOTHESIS**

- **T-test**, **f-test**, **x2** tset etc.
- **Accepting or rejecting** hypothesis
- **Proving validity**
- □formulating a truthful hypothesis
- Contribution to existing theory or generation of new theory

Measuring Power of a Hypothesis Test		
H <sub>o</sub>	True	Not True
Accept		Type II Error
Reject	Type I Error	

#### **PREPARATION OF THE REPORT OR THESIS**

\*A detailed description of what has been done, how it has been done.

contents

Preliminary section : titles, date, acknowledgement, foreword table of contents

Main body : introduction, methodology, statement of findings, conclusions & recommendations

**\***End matter: appendix, literature selected, bibliography

