



EDTC622: Research Applications

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CREATING A RESEARCH PAPER

State the Topic

- Select an Educational Matter of Interest
- Determine Research Feasibility
- Compose Working Title

Matter Of Personal Interest

- Researchable - Can it be studied, measured, or chronicled?
- Ethical - Will topic pass NJCU IRB Review?
- Appropriate - Will you be able to conduct this in a school setting?
- Time and Cost

Three Key

- What is the THEORETICAL approach?
- What TECHNOLOGY are you incorporating?
- What RESEARCH METHOD are you using?

Topic Considerations

- Identify key terms associated with topic
- Locate guides and directories appropriate to topic
- Review Online Resources from NJCU

Stop, Reflect, Commit

- State the Research questions you will answer
- State the Hypothesis or State the Problem
- Refine the Main Question
- Formulate the Subquestions
- Compose a Working Title

Identify Data Sources

- Descriptions -Summaries or Observations
- Scores -Test or Tallies
- Measurements - Other than Test Scores
- Analyses
- Records

¹ Image: Microsoft Clip-Art Online, 9/14/2003 2:02:49 PM

- Documents

Anticipate Sources Of Data

- Participants - People Participating in study
- Procedures - Processes Employed
- How will you get data?
- Setting - School Environment
- How will data be analyzed and Interpreted?

CHAPTER I: INTRODUCTION

The Problem and Setting – Background

- Purpose
- Hypotheses and/or Research Questions
- Need for the Study
- Definitions
- Logic of Paper
- Summary

Chapter I Guides The Paper

- Keeps Research on Focus
- Generates Points of Inquiry
- Determines Relevance
- Sets Stage for Discussion
- Foreshadows Discussion and Analysis
- Anchors Summary, Conclusion, and Recommendations

Create Rough Draft Of Chapter I

- Follow Style Guide
- Observe Standard Rules of Grammar
- Check for Mechanical Errors
- Proofread
- Edit for Redundancy

Basic Rule

- Give each idea the space it deserves, but no more

CHAPTER II: REVIEW OF LITERATURE

Chapter II Provides The Background

- Establishes Theoretical Foundation
- Anchors Each Research Question in Scholarly Research
- Validates the Efficacy of Study
- Demonstrates Researchers Ability to Organize a Body of Information
- Confirms Researchers Command of Subject

- Is a presentation of a review of literature relevant to your study?
(Discussion is reserved for chapter V)

How Do I Organize Chapter II?

- Chapter subdivisions determined by research questions
- Research review presents a comprehensive profile of relevant literature

Review Of Literature

- Should be Clinical, Comprehensive, and Referenced
- Validates the researcher's credibility and competence as a discipline researcher
- Is a Formal Presentation of Research
- Reflects Current Research – Latest Studies
- Presents Theoretical Foundation
- Is Comprehensive Yet Concise

Develop The Bibliography Simultaneously;

- Establish a separate file; Follow APA format

Review And Revisit

- Have all research questions been explored?
- After Review of Literature do you wish to revise or extend your hypothesis of research questions?

Bibliography

- Organize bibliography according to style manual
- There will be few additions and they can be easily inserted
- Proof Bibliography
- GOTO Bibliography

CHAPTER III: METHOD

Parts Of Chapter III

- Design of the Study
- General Procedures
- Documents Used in the Study
- Issues Regarding (your topic)
- Resources
- Procedures for Analyzing Materials
- Data Collection
- Data Analysis
- Summary

Design Of The Study

- Remind the reader what you are doing

General Procedures

Describe the type of research

- Action,
- Experimental,
- Content Analysis,
- Case Study

Documents Used In The Study

These are assessment instruments designed by YOU

- letters,
- questionnaires,
- interviews,
- tests

Quantitative Measures

- Test and Scales
- Questionnaires
- Interviews
- Direct Observation

Tests And Scales

- Limitation- Person has to be able to read and write
- Advantage – Cost Efficient
- Disadvantage - Group
- Administered – Little chance for researcher to determine physical or mental state

Questionnaires

- Pretest Questionnaire in pilot study
- Eliminate Leading Questions
- Check for Psychologically threatening Questions
- Direct Questionnaire to People who have the Information

Interviews

- Advantage - Adaptability and the potential to gather data in depth
- Disadvantage - Interaction between researcher and interviewee can lead to subjectivity and bias

Interview Points To Consider

- Interviewer's Training
- Recording of Information
- Rehearsal of Interview Procedures
- Avoidance of Leading Questions

Direct Observation

- Variable Inference
- Observer's Training
- Observation Period
- Conspicuous Setting for Observation
- Problems Associated with Observer Present

Create The Questionnaire

- When?
- This semester!

ISSUES REGARDING YOUR TOPIC**Resources**

- Other “things” not designed by you, e.g.
- a panel of experts, Web sites, someone else's materials

Procedures For Analyzing Materials

- How will you turn your data into information—
- more theoretical than practical

Data Collection

- How are you PHYSICALLY going to do it?

Data Analysis

- How will you present your findings?
- What will be in the graphs?
- What will be in the tables?
- In most cases this will be revised after Chapter IV is complete in the second semester.

Last Thought

- Let the Adventure Begin!