



















Research Questions	Methodology			
3. What other mediating factors contribute to future elementary teachers' decision to concentrate	Constructivist Grounded Theory Approach	Semi-Structured Interview and Qualitative Research Software - NVIVO 7		
on science?		Semi-Structured Interview and Qualitative		
3.1. How are these mediating factors intensified or diminished by the science courses they have taken?		Research Software - NVIVO 7		
3.2. How are these mediating factors intensified or diminished by their other experiences?		Semi-Structured Interview and Qualitative Research Software - NVIVO 7		
4. Is the re a relationship between future elementary teachers' views on the nature of science and their teaching self-efficacy?	Descriptive Survey and Correlation	STEBI Form B and VNOS Form C survey and SPSS		



Coding in Grounded Theory

Initial Coding

- Remain open
- Stay close to the data
- Keep your codes simple and precise
- Construct short codes
- Preserve actions
- · Compare data with data
- Move quickly through the data

Gathering Reach Data (1 of 3)

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Types of Coding

- Word-by-word coding
- · Line-by-line coding
- · Coding incident to incident
- In Vivo Codes (participants language)
 - FIT and RELEVANCE

Gathering Reach Data (2 of 3)

Focused Coding

- Directed, Selective and Conceptual
- Which of the initial codes make the most analytic sense to categorize your data incisively and completely?
- Not entirely a linear process

Gathering Reach Data (3 of 3)

Coding Problems

- Coding at too general a level
- Identifying topics instead of actions and processes
- · Coding out of context
- Attending to disciplinary or personal concerns rather than participants' concerns
- Using codes to summarize but not to analyze

Memo Writing (1 of 2)

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Intermediate step between data collection and writing drafts of papers

Why?

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- Prompts analysis of data and codes
 - Stop and think about your data
 - Discover gaps in data collection
 - Develop connection between categories
 - Link data-gathering, data analysis, and report writing
 - Build whole sections of papers and chapters

Memo Writing (2 of 2) Intermediate step between data collection and writing drafts of papers How? • Begin memo my titling it. • Define the category you intend to treat • Bring raw data into the memo • Think where both the category and the data it subsumes lead you. Partial, preliminary, and provisional.

Distinguish between conjectures and those in firm ground



 to distinguish and clarify relationships between categories











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