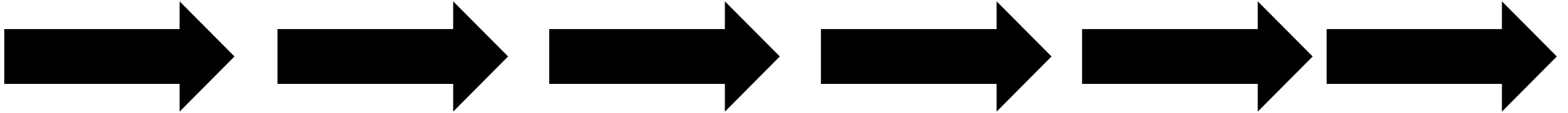
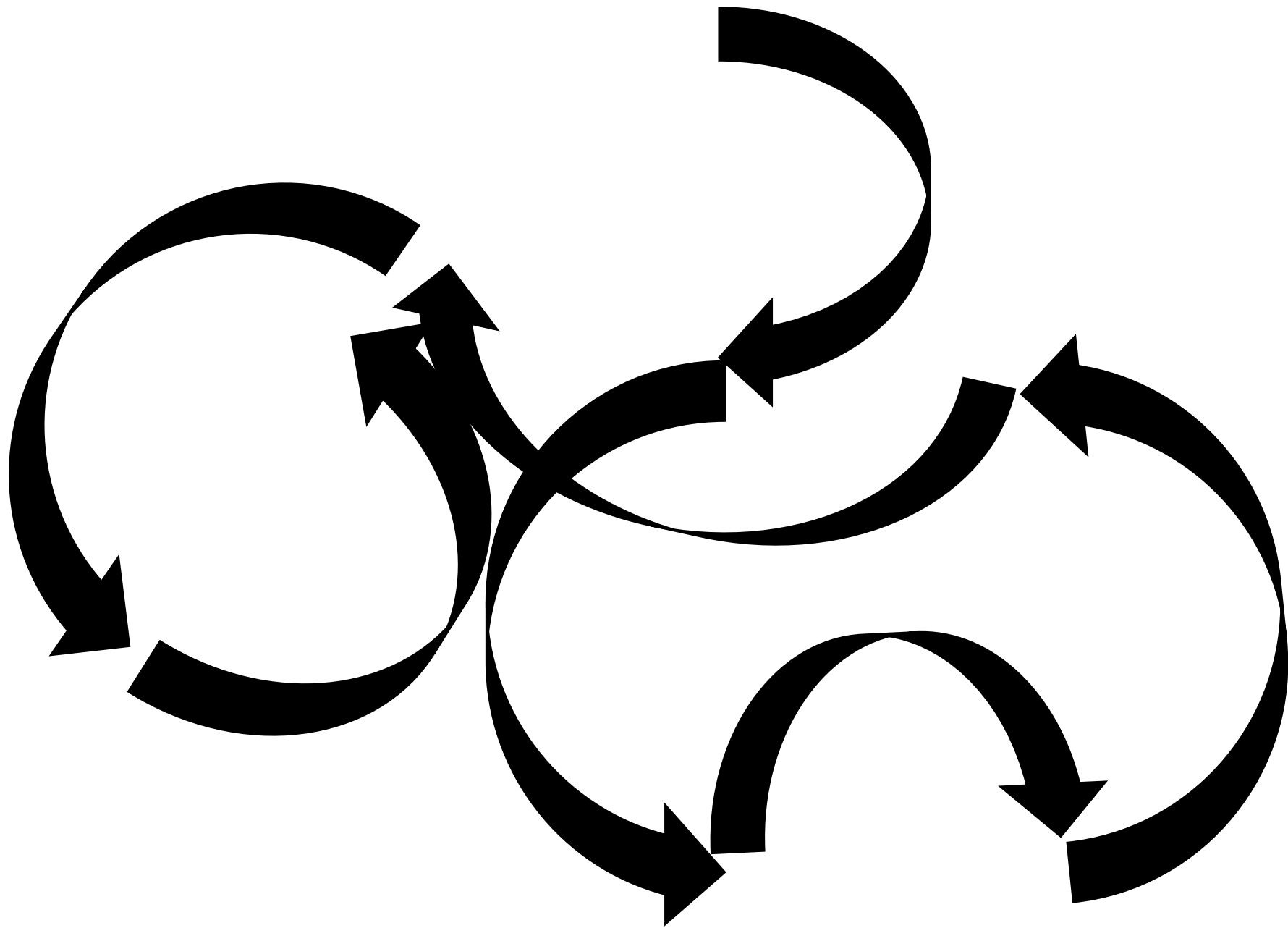


A Closer Look at Methodology

Jennifer Sharples Reichenberg, Ph.D.





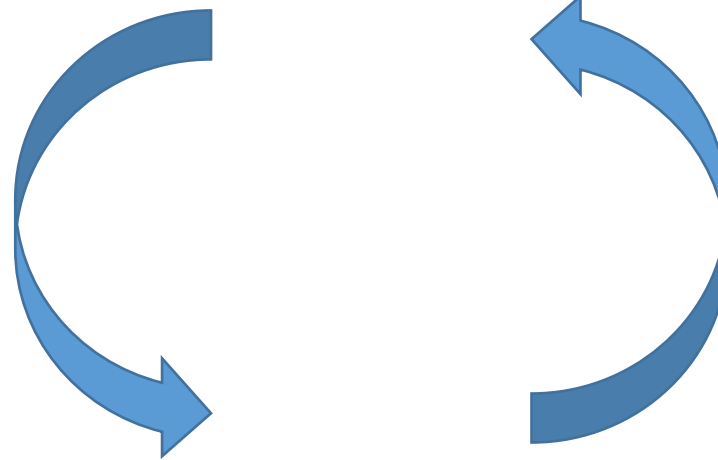
Choice of Research
Design

Keeping Track of
Coded Data

Staying
Organized
and Focused

Aha!

Data Analysis



Choice of Research Design

Multiple Case Study

Bounded by the cases (Creswell, 2013)

Within a real-life context (Yin, 2009)

Multiple sources of data (Yin, 2009)

Seeking understanding of a specific issue or concern (Creswell, 2013)

“Intensive, in-depth examination” (LeCompte & Preissle, 1993, p. 33)

Specific “aspects of a given phenomenon” (LeCompte & Preissle, 1993, p. 33)

Templates

Transcription

Analytic
Memos

Staying Organized and Focused

Data Grid

Data
Maintenance
Plan

	Transcribed coaching session audio	Coaching session notes	Field notes and videos	Classroom artifacts	Analytic memos	Interviews
Anna	9 sessions 226 minutes total	9 sets	7	35	17	2
Fay	10 sessions 282 minutes total	10 sets	8	33	19	2
Isabella	10 sessions 284 minutes total	10 sets	12	37	24	2
Patrick	11 sessions 290 minutes total	11 sets	12	48	24	2
Totals	40 sessions 1,082 minutes	40 sets	39	153	84	8

Data Maintenance Plan

After a Coaching Session

Memo

Transfer audio

Transcribe audio

Coaching session notes – share with teacher

Artifacts – collect and name

Make materials – share with teacher

Reflection guide

Grid

After a Classroom Visit

Memo

Transfer video to my computer

Transfer video to portable computer

Field notes

Artifacts – collect and name

Grid

Time stamp

Templates

Reminded me of what I needed to write down or do
(e.g., field notes: number of students, times)

Maintained coherence for me across the data
(same information on every set of field notes)

Teacher Pseudonym:	Date:
Period # / Time:	Subject:
Grade:	No. of Students (M/F):

Field Notes
Template

Teacher Pseudonym:	Date:
Context:	Subject:
ANALYTIC MEMO	

Analytic Memo
Template

Analytic Memos Written Immediately After Experience

Fay
15.12.16

As I was talking, Fay said something like, “Just keep going, and I’m going to work on this (her broken computer situation) while you talk.”

However, by the mid-beginning of the session, she seemed to give our conversation her full attention and was invested (adding, making suggestions, etc.)

How do you judge the engagement of a teacher in a coaching session? – good question to think about further

Transcription

Within 24 hours

Did all transcription myself

Echo dictation with Dragon Naturally Speaking Software

Hardest part of the process – 30 minute session took 2 hours

Major step in data analysis

Add to analytic memos

Data Analysis

Data Analysis

During data collection –
Analytic memos
(Glesne, 2011)

Transcribed and
reread all written
data and write
initial
impressions
(Creswell, 2013)

Chronological
portrait for each
teacher

Defined and coded
categories deductively
based on research
questions:
✓ Mediation by coach
✓ Mediation by framework
✓ Mediation by video
✓ Reflective stance
(Creswell, 2013; Glaser & Strauss, 1967/2006; Rubin & Rubin, 1994)

Apply descriptors
e.g., “revoice”
Looked for themes
within each
category
(Creswell, 2013)

Noticed differences
and similarities
across steps in the
framework

Solidified codes

Reorganized by looking at **each step in the framework** instead
of each category based on research questions
(Creswell, 2013)

Re-coded all
data
(Rubin & Rubin, 1994)

**Write Down All Data
Analysis Steps and
Dates for Two Reasons**

**1) Methodology chapter:
Easiest to write!**

**2) Prove to yourself you
are making progress**

**Recording Data
Analysis Steps**

Initial analysis of complete corpus of data: March and April (began March 30)

Chronological rereading of each teacher's material

On the transcript - Highlight important moments and make marginal notes

Development highlights (separate document)

Contextual Factors

Development

Lack of Development

Important Moments

Chronology of each cycle (separate document)

Pre- and post-interview highlights

Write a memo after initial analysis of each teacher

**Case by Case Analysis :
Create Chronological
Portrait for Each
Teacher**

Meeting with Co-chairs – discuss approach to writing up findings - 4/14/16

Data Analysis

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Second layer of analysis of complete corpus of data (began April 15)

1) Identify/Code mediation by the coach

“Mediation by the coach” defined as:

Teacher’s perceptions of the way the role, actions, or words of the coach supported their development

Coach’s words or actions that aim to support development of teacher thinking or practice

Teacher’s actions that communicate need for or use of coach to support development of teacher thinking or practice

Method:

- 1) Read and code the pre- and post-interview notes
- 2) Read and code the chronology
- 3) Read and code the transcripts
- 4) Read and code the memo written after initial analysis
- 5) Read and code the individual development highlights
- 6) Read and code cross-case highlights
- 7) Go back into original data for clarification and context throughout
- 8) Put everything coded as “mediation by coach” on a separate document “Coach mediation”
- 9) Look for common codes within this document and divide instances of mediation by the coach into common codes on the document
- 10) Create a document of codes for all teachers to look for common codes or unique codes and to collapse similar codes

**Research Questions:
Code for Mediation by
Coach, Video, and
Framework**

**Recording Data
Analysis Steps**

Data Analysis

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Final List of Codes

+		
Code	Code	Present in framework steps
Teachers identifies perplexity independently – Something went wrong	WW WW INT (interview)	1
Teachers identifies perplexity independently – Sense of unease	UE UE INT (interview)	1
Teachers identifies perplexity independently – Observing students	OS S INT (interview)	1
Suggesting by coach	SUG	1, 3, 4, 5, 6
Teacher initiated: Remember	REM REM INT (interview)	2
Teacher initiated: Description	DES	2
Teacher initiated: Noticing	NOT NOT INT (interview)	2
Teacher initiated: Connecting	CON	2
Teacher considers students' perspective	PER PER INT (interview)	2
Teacher judges	JUD	2
Teacher or coach views video to answer a specific question	SQ SQ INT (interview)	
Coach prompted description through a question	CP DES QUEST	2
Coach prompted description through a statement	CP DES STATE	2
Coach prompted description though a statement that leads to building	CP DES STATE BUI	2
Coach prompted description through a question that leads to building	CP DES QUEST BUI	2
Coach models description	C MOD	2
Coach models description to answer a specific question	C MOD SQ	2
Building by coach and teacher / Co-articulation	BUI (steps 2, 4, 5, 6) CO (steps 2, 4, 5, 6)	2, 3, 4, 5, 6

Example: All Coded Data

Patrick

Steps 4 and 5 Generating and Selecting Alternatives

TE 16.03.02

Patrick I know at some point in time as well I like to talk a little more just to get your guidance on constructing this essay, this research essay. You helped put together some things and if we could find some time to talk about constructing that

SUG 15.12.09

Jen So, that might be a good place for you guys to start as well - looking at model texts and how authors structure their arguments.

Origins of perplexity

	Coach		Went wrong		Unease		Students	
	CS	INT	CS	INT	CS	INT	CS	INT
Anna	3	0	1	2	1	0	1	0
Fay	3	0	0	0	0	1	5	1
Isabella	0	0	3	0	2	3	3	1
Michael	4	0	0	1	2	0	4	0
Totals	10	0	4	3	5	3	13	2
CS + I Totals		10		7		8		15

CS – Coaching sessions

INT – Interviews

Origins of perplexity with DATES

	Coach		Went wrong		Unease		Students	
	CS	INT	CS	INT	CS	INT	CS	INT
Anna	11/9, 2/10, 3/16	0	12/21	Pre / post	3/16	0	10/28	0
Fay	11/4, 2/3, 3/9	0	0	Pre / post	0	<u>Int</u>	11/17, 3/2, 3/2, 3/16, 3/16	PRE
Isabella	0	0	12/16, 1/20, 2/10	0	11/4, 2/10	Pre, post, post	10/6, 3/2, 3/2	pre
Michael	10/21, 1/20, 2/10, 11/17	0	0	pre	11/17, 3/2	0	10/6, 11/4, 11/4, 3/2	0

CS – Coaching sessions

INT – Interviews

**Example:
Data Charts
(Where to find
examples)**

<i>Framework Step 1: Identify initial perplexity</i>	<i>Framework Step 2: Describe video</i>	<i>Framework Step 3: Articulate focused central challenge</i>	<i>Framework Steps 4 and 5: Generate alternatives and select</i>	<i>Framework Step 6: Enact</i>
Model and suggest	Model	Model and suggest	Model and suggest Ask dissonant questions	Model and suggest
--	--	Reconceptualize	Reconceptualize	Reconceptualize
--	Build	Revoice Build	Revoice Build	Build
--	--	--	Ask question to develop intersubjectivity to inform coaching	--

**Codes:
Types of
Joint
Actions
Initiated
by the
Coach**

<i>Framework Step 1: Identify initial perplexity</i>	<i>Framework Step 2: Describe video</i>	<i>Framework Step 3: Articulate focused central challenge</i>	<i>Framework Steps 4 and 5: Generate alternatives and select</i>	<i>Framework Step 6: Enact</i>
--	--	--	Suggest	--
--	--	--	Disagree	--
--	Build	Build	Build	--
--	--	--	Ask question to develop intersubjectivity (seeking targeted expertise)	Ask question to develop intersubjectivity (seeking targeted expertise)

**Codes:
Types of
Joint
Actions
Initiated
by the
Teacher**

Joint Action

Rogoff, 1990
Tharp & Gallimore, 1995
Wenger, 2008
Wertsch, 1998

When? Why?

Historic and dynamic context

Lemke, 2001
Mercer, 2008

Consonance Dissonance

Bakhtin, 1981/2003
Rommetveit, 1988
Wertsch, 1998

Categories of Joint Action

Directive/Dissonant
Responsive/Dissonant
Directive/Consonant
Responsive/Consonant

Responsive Directive

Deussen et al., 2007
Dozier, 2006
Ippolito, 2010

