Worksheet #1: Developing a Research Question Developing a Meaningful, Feasible, and Focused Research Question

A Good Research Question			
Is meaningful and significant to you.	Is possible to research with the time, resources, and students you work with.	Is deliberate, narrow and focused, so that your project will adequately answer the research question.	Will need to be refined.

Define the problem and the situation and consider possible interventions:

What is the problem?	
What population? (ex. first-year students, upper-level math, community college etc.)	
Sample? (ex. One section, multiple sections, cross-disciplinary, one class period, whole semester etc.)	
Context? (ex. Institution type, type of course, student demographic)	
Intervention? * (ex. What are you going to do? Describe, compare try something new, etc.)	

^{*} NOTE: some people prefer to draft a working research question and **then** consider possible interventions, so this step is optional)

Now try drafting a working research question. Get feedback on your drafts!

First Attempt	
Cocond Attompt	
Second Attempt	
Third Attempt	
· · · · · · · · · · · · · · · · · · ·	

Worksheet #2: Sample Planning Worksheet (blank version)

Identifying a Research Question and Planning a SoTL Project

Purpose		
Institutional Context		
– what factors do		
you want to		
examine?		
What issues and		
challenges are		
related to your		
context?		
Literature Review		
Sources – Focus on		
how your context		
differs from what		
has been published		
in the literature.		
Working Research		
Question(s):		
- Be specific		
- Consider		
Timeline		
- Be ready to		
refine		
On Campus		
Resources		
- IRB		
- Collaborators		
- Library (SOTL		
Library, USG)		
- Technology		
- Data Analysis		
Data Collection Metho	ods - Quantitative, Qualitative, Mixed	l Methods.
İ		

<u>Evidence</u>	
<u>Data Analysis</u>	
<u>Sample</u>	Scalability
Timeline	
Plan for Pilot Study – How will you	
conduct a pilot	
study?	
Possible Outlets for Publication or	
Presentation	

Notes:

Parking Lot:

Worksheet #3: Sample Planning Worksheet (annotated version) Identifying a Research Question and Planning a SoTL Project

Purpose	Think broadly about an area of concern or a pinch-point for your teaching/course development/evaluation. What areas would you like to figure out more about or resolve?			
Institutional Context - what factors do you want to examine? What issues and challenges are related to your context?	Institution type (2-year, 4-year, small institution, large institution, liberal arts, tech, undergraduate, graduate, HBCU, HSI, nontraditional, etc.) Population (Undergraduate, graduate, URM, at-risk, first-generation, honors, majors, underprepared students, etc.) Disciplinary or cross-disciplinary (English, STEM, supplemental instruction, tutoring, QEP, General Education, etc.)			
Literature Review Sources – Focus on how your context differs from what has been published in the literature.	What are the bodies of research that would inform this study? Are there specific databases that would include such research? Who are the leaders in the field? What are the seminal pieces relevant to this research? Conferences? Are there theoretical frameworks that would help develop this research?			
Working Research Question(s): - Be specific - Consider Timeline - Be ready to refine	Is meaningful and significant to you.	Is possible research v time, reso students v with.	with the ources, and	Is deliberate, narrow and focused, so that your project will adequately answer the research question.
On Campus Resources - IRB - Collaborators - Library - Technology - Data Analysis - Grants	 Find out process for gaining IRB approval. Visit with colleagues who can guide you on research design, help conduct data collection, data analysis, proofreading, etc. Identify the discipline specific librarian. Identify available or easily purchasable technology Contact your local CTL!!! Visit with your institution's research office, if available. Work with grants office/CTL to find funds to support your study 			
Data Collection Methods	Qualitative Case Study Observation Interviews Focus Groups Document Analysis		Quantitative Correlationa Causal Comp Experimenta Quasi-exper Experimenta	l parative al imental

	I			
<u>Evidence –</u>	Video/audio recordings	Survey/Questionnaire		
<u>Qualitative</u>	Artifacts/relics (photographs,	 Nominal (categories0 		
	Think-aloud protocol	 Ordinal (ordered – age 		
	Mind maps	range)		
	Observation journal	 Interval (ex. Scale of 1 to 		
	Interviews/focus groups	10)		
	Documents/student work	Student grades/scores		
		Rubrics		
Data Analysis	Constant Comparative	Descriptive Statistics		
	Thematic Analysis	ANOVA		
	Ethnography	Multiple Regression		
	Grounded Theory	Q-sort		
	Content Analysis			
Sample		Scalability		
 Purposeful sar 	nple	 Are there ways to increase 		
- Entire class or	multiple classes	the reach with this study?		
- Single case study or select group		- Mentor/collaborator		
- Time frame (class period, activity, module,		options?		
course, course sequence, semester, program)		- Increase within discipline or		
		across discipline?		
		- Work with other		
		departments or		
		institutions?		
Timeline	- What amount of time do y	What amount of time do you think it will take to conduct this		
	research?	·		
	- Be sure to take into consid	Be sure to take into consideration the amount of time to gain		
	Human Subjects approval,	Human Subjects approval, recruit participants, plan the		
		up/transcribe data, and analyze		
	data.	•		
Plan for Pilot Study	- Is there a way for you to co	Is there a way for you to conduct the study on a much smaller		
– How will you	scale? Use only a few stud	scale? Use only a few students?		
conduct a pilot	- Ask colleagues to try the q	Ask colleagues to try the questions/approach out?		
study?	- Analyze only a select grou	Analyze only a select group of documents?		
Possible Outlets for	- Peer-Reviewed Disciplinar	Peer-Reviewed Disciplinary		
Publication or	conferences/journals/blog	conferences/journals/blogs/newsletters		
Presentation –	- SOTL Conferences	SOTL Conferences		
Significant Outlets	- Faculty Development/Edu	Faculty Development/Educational Development Journals		
	- Others			

Notes:

Worksheet #4: Sample Planning Worksheet (completed example version) Identifying a Research Question and Planning a SoTL Project

Purpose	To explore how flipped classrooms impact student perceptions of their effectiveness.		
Institutional Context – what factors do you want to examine? What issues and challenges are related to your context?	Underrepresented, underprepared, first-generation. Two-year college Students unaware of how to take control of their own learning.		
Literature Review Sources – Focus on how your context differs from what has been published in the literature.	URM Self-directed learning Perceptions of effectiveness		
Working Research Question(s): - Be specific - Consider Timeline - Be ready to refine	Given three flipped classroom sessions, how do URM students characterize their effectiveness in their learning? What changes in their ability to learn on their own do they attribute to the flipped classroom activities?		
On Campus Resources - IRB - Collaborators - Library (SOTL Library, USG) - Technology - Data Analysis	 Education librarian Ethnographist IRB office Recorder Transcriptionist Scheduler Donations for recruitment materials 		

<u>Data Collection Methods - Quantitative, Qualitative, Mixed Methods.</u>

- Interviews
- Focus groups
- Journaling

Transcripts of interviews, journals, transcription of focus groups. Data Analysis Constant Comparative Analysis Thematic Analysis Sample URM Biology 101 students at a local, two- year college taking face-to-face classes. Scalability Apply approach to STEM-H classes and train numerous graduate students on interviewing and data analysis to ensure interrater reliability. Timeline Conduct literature review and Create study proposal – One semester Write up plan for Human Subjects approval – One Week Submit for Human Subjects approval – two to four weeks (or more) Conduct three flipped classrooms for BIO 101 course (including having students journaling throughout the process) – two weeks Recruit for focus groups – two weeks Transcribe and analyze results – two weeks Recruit and conduct interviews – two weeks Transcribe and analyze interview data – three weeks Write up results and prepare for publication – one month Plan for Pilot Study – How will you conduct a pilot Interview three students after a series of flipped classes the semester prior to the beginning of the project.				
Data Analysis Constant Comparative Analysis Thematic Analysis Sample URM Biology 101 students at a local, two-year college taking face-to-face classes. Conduct literature review and Create study proposal – One semester write up plan for Human Subjects approval – One Week Submit for Human Subjects approval – One Week Submit for Human Subjects approval – two to four weeks (or more) Conduct three flipped classrooms for BIO 101 course (including having students journaling throughout the process) – two weeks Recruit for focus groups – two weeks Transcribe and analyze results – two weeks Recruit and conduct interviews – two weeks Transcribe and analyze interview data – three weeks Write up results and prepare for publication – one month Plan for Pilot Study How will you Plan for Pilot Study How will you Interview three students after a series of flipped classes the semester prior to the beginning of the project.	<u>Evidence</u>			
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– How will you prior to the beginning of the project.		·		
	Plan for Pilot Study			
	– How will you	• •		
· · · · · · · · · · · · · · · · · · ·	<u> </u>			
study?	•			
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Possible Outlets for State level conference, regional journal, national conference in	Possible Outlets for	State level conference, regional journal, national conference in		
		discipline.		
Presentation		,		

Notes:

Resources to Support Your SoTL Work

For USG Chancellor's Learning Scholars September 2019

Prepared by: Jim Berger, Kathryn Crowther (<u>kcrowther@gsu.edu</u>), Michele DiPietro, Mark Johnson, and Deborah Richardson (<u>derichardson@augusta.edu</u>)

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