Collab in Times of Anxiety

When there is no escape from people, how can everyone participate comfortably despite students describing anxiety about working with real people instead of Zoom screens?

Late 2022 saw institutionally-encouraged face-to-face classes return as the learning norm. However, learners expressed high levels of anxiety regarding face-to-face classes.

This presentation reviews a study on 'new' learning environments and reworks it for face-to-face learning after the Covid gap years.

Maria Lisak

Overview

- Literature Review of Hmelo-Silver et al's Understanding collaborative learning processes in new learning environments
- Analyzing my teaching for collaboration
- The Collaboration Process I foster to deal with anxiety
- Comparing Hmelo-Silver's Tools & Steps to mine
- Preliminary Findings from Student Comments and Language Practice Notes
- References & Contact Information

The Literature Review

This presentation gives a summary of a study with a robust collaborative process scaffolded in an online course. This presentation reviews:

- 1. The collaborative and individual tools learners used in the course
- 2. the activity steps and modalities planned and implemented
- 3. the researchers codes identifying specific aspects of collaboration

The Study

Hmelo-Silver, C. E., Chernobilsky, E., & Jordan, R. (2008). Understanding collaborative learning processes in new learning environments. *Instructional Science*, *36*(5), 409-430. https://doi.org/10.1007/s11251-008-9063-8

The Details

What is the study about?

- Collaboration
- Process
- 'New' learning environment now it's old! Zoom and Covid!

What is the significance of the study?

 How tools/modes for individual and collaborative engagement work together to promote collaboration in online and face-to-face environments

How is the study conducted? What methodology and methods were used?

- Sociocultural Theory Frame
- Chronologically-Ordered Representations of Discourse and Tool-Related Activity (CORDTRA) diagrams
- Frequency analyses provided an easily interpreted snapshot of each group's activity.
- The CORDTRA analyses provide a more dynamic view that helps researchers and teachers better understand how collaborative learning unfolds.

Tools

Individual Tools include a personal notebook where students

- conduct preliminary problem analysis
- keep notes on their research
- provide an explanation of their group's product
- reflect on their learning experience

Collaborative Tools

- STELLAR whiteboard (shown in Fig. 2)
 - The whiteboard served as the editable solution space, where students could post and edit their solution proposals during and after discussions. It was also a space where other students and the facilitator could provide feedback and ask questions." p 414
- threaded discussion

STELLAR whiteboard (shown in Fig. 2)

Proposal 6 by MariaM

Last edited: 04/05/2004

2 of 0 axers. Included in Final Product

Proposal:

I think one very we can incompense all these ideas not an instructional activity would be to break the char up into groups and have them discuss the concepts of static electricity. We could design a question and activity cheer that would help the students in 'coupling approximation, in other words e need to facilitate or even instate a discuss on that would help the students to inter-act and crow a scotfolding. Once the teacher observes the students displaying the evidence of enduring understanding she can then implement fading and slow the students to act as the facilitators gaining knowledge by explaining no infers what is not enderstand.

Second and experiment could be designed for the groups and a prediction sheet should be handed out. Each student can then explain why heighe thinks their predictions will work and law they will go about testing the materials. Each group should then present to the class.

Why they chose the method that they did

What worked and what didn't

What were their misconceptions and what did they already know.

Lastly a real life scenario should be given to each student and they should be asked to apply the concepts they learned to this situation. For example why a person's hair sands on our when state electricity is applied to the body. The students should a able to explain why this happens in concrete terms using the concepts they have explored during experimentation.

Do you support the actusion of this proposal to the Stuil Group Product?

No Vote

Research Findings:

http://stellin.wor.wisc.edu/vep/theores/TheoreticalPerspectives/SocioculturalTheory/CognitiveAppointmeship

Comments by Sally A:

I see where Maria is coming from when the discusses the above? I feel that they are reality good ways of handling the situation at hand ands I was thinking along similar lines when the tillide about the real live scenario and the questions and answer sheet! I sever thought of a prediction stem, but new that she maristom it, it neems like a great idea." What they do do neverymen time?"

Comments by Marsal/C

I think having the crudents design the experiment is a good idea however we are talking about Mr. Johnson's class. These students may not have enough knowledge to design an effective, thought provoking experiment. Having a discussion on how to test concepts might work, however we want then to learn about the components of electricity, dopposites attacts, same charges appel) I think is would be difficult for them to design any activity when we are trying to get them to learn. Designing the activity is a part of structuring their abilities. We need to provide some structuring the incital faces. However, we could sak them to design an experiment to test their findings as a sep towards summarize accessment.

Comments by Carrield:

New comment: Maria, I know what you are talking about with the whole developing a emperiment being a good idea to do but then again, in Edition's class side did not have the groups design their own experiment – she gave them the tastic-speciment of the tape for them to work on in groups to determine which of the 3 begodness they came up with prior to the experiment when true in the end. So what I am wondering in any we saying we want Elian Johnson to have students develop their OWN experiment or use an experiment as assigns to them as Editors did ???

Either way, I think the experiments assist the learning grocero because it gets makedness to work with the material.

Old comment: I did not remember either, Patticia. I were back to the clips and watched the ones about the tape experiment. Ettima gave the introduction to the experiment to the class as whole and caid. "Professor: Imagine... here it goes... Imagine you can put flees tapes that are stuck to the table off the table... what do you think should happen, based on all your knowledge of electric processes, to these two tapes if you put them close to each other?" After that, the class has a discussion about what they thought would happen, and after the discussion came to a conclusion of 3 possible predictions about what the tape experiment would disease. Then the next clip showed them go into their groups and do the experiment themselves to figure out which one of their predictions were point to be true.

Activity Steps, Individual Tools, Modes

STEP 1 Study video case Individual, Online STEP 3 View other students proposals Collaborative, Online

Table 1 Structure of STELLAR activity

Activity	Description	Modality	
STEP 1	Study video case	Individual, Online	
STEP 2	Record observations and initial proposals in online personal notebook that guides students towards relevant lesson features	Individual, Online	
STEP 3	View other students proposals	Collaborative, Online	
STEP 4	Identify concepts to explore for redesign	Collaborative, Face-to-face	
STEP 5	Conduct and share research	Collaborative, Online	
STEP 6	Collaborative lesson design Groups present project to class	Collaborative, Online Collaborative, Face-to-face	
STEP 7	Explanation and justification of group product	Individual, Online	
STEP 8	Reflection	Individual, Online	

Designing My Study

- What was I scaffolding?
 - Individual tools
 - Collaborative tools
 - Collaborative steps
 - Coding the lessons for language production justification

Context

Late 2022 saw institutionally-encouraged face to face classes return as the learning norm.

Spring & Fall 2020 - Online in Zoom

Spring & Fall 2021 - Hybrid (Simultaneously f2f & Zoom)

Spring 2022 - Month by Month Student Choice (Online or Hybrid)

Fall 2022 - Face to Face

Learners

91 Korean university students in a mandatory content course for their major, taught in English.

What is your favorite kind of activity during face-to-face classes? Why?	Nearly all students report group, team or partner activities as their favorite.
	next most popular was speaking, presentation or talking
	a few are about ss-t interaction especially about immediate feedback
	a few about writing or research
Only 6 students reported	Groups were their 'worst' work.

Student Reported Results

Midterm

F2f comfort 4.054

Ppl comfort 3.92

Final

F2f 4.27

Ppl 4.22



Method

Constructivism

Vygotsky

Instructional methods for collaborative learning strategies:

- Think pair share
- Group discussion
- Peer review reworked into more think pair share

45 lessons	17 collaboration with teacher, partner or group		
38%	Goal was 33%		
27%	without t-ss interviews		
44%	if i include class share as part of the collab work		

Findings

End of term reflections showed that

- Learners were tapping into the positive aspects of working with others

And I triangulated these reflections with questions about what they thought were
their worst work of the semester

Stats: responses, codes, categories; before/after self anxiety rating

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My Stone		1		
My Steps	step 1, indiv	homework	research	
			write - opinion,	
			response,	
	step 2, indiv	homework	analysis, webquest	
			share	(to class, group or
	step 3, collab	class	(speak/listen)	partner)
	step 4, high		interact (new task,	
	collab	class	focus, duty)	(group or partner)
	step 5, collab	class/to teacher	present	(individ or rep)
		class/revise,		gform (indiv) or
	step 6, indiv or	graph, draw,		handout (collab in
	collab	extend (hw)	write, draw	class)
		Read - class or		
	step 7 indiv	hw	t feedback	focused correction

Next Steps

My Collaborative Process Detailed Lesson Plans (October at SNU ICER - pending)

An outline of how language learning tools and collaborative steps in an activity system help learners incorporate equitable practices for learners with different emotional and motivational needs. (December at JALT Online - pending)

Learners can be further scaffolded to use collaborative advocacy strategies to address difference, ghosting, slackerism and dissension.

References & Contact Information

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Hmelo-Silver, C. E., Chernobilsky, E., & Jordan, R. (2008). Understanding collaborative learning processes in new learning environments. *Instructional Science*, *36*(5), 409-430. https://doi.org/10.1007/s11251-008-9063-8

Hmelo inspo and My ISD

https://docs.google.com/spreadsheets/d/1ZZqrKdzokaFqVNnmbwvZ2gafiKX4iM5cilvvzIfwADQ/edit#qid=270060391