

IMPACT OF LEARNER-CENTERED FACILITATION ON TEACHERS PROFESSIONAL DEVELOPMENT DURING A LS



Presentation Outline

- Conceptual framework & Research question
- General information on data collection methods
- Preliminary results
- Conclusions and perspectives



- Literature on the impact of LS facilitation on teachers is scarce:
- Amador & Weiland (2015)
- **❖** Amador et al. (2018)
- * Cady et al. (2008)
- **❖** Carlson et al (2007)
- ❖ Lewis & Hurt (2011)
- **!** Lewis (2016)
- **❖** Khokhotva (2018)
- * Morago & Grigioni-Baur (2017, Wals 2017)
- * Mynott (2018, 2018a)
- * Rock & Wilson (2005)
- Takahashi & Yoshida (2005)





Research question:

- Pupils learn through learner-centered, inquirybased opportunities
- Can teachers also learn through inquiry-based situations?
- Facilitator provides learner-centered questions



Examples of Learner-centered facilitation questions:

- * You have a learning outcome, it is a disciplinary one. Do you have any other outcomes? If you don't, think about it, no need to answer now.
- What are you expecting to see with the tasks you plan?
- What were the modalities of the diagnostic assessment you gave the class? What was your aim, what sort of data were you planning on getting?
- How are you going to anticipate, assess and tackle pupils' learning needs and impediments?
- What do you want to observe during the research lesson?



Research question:

- Pupils learn through learner-centered, inquirybased opportunities
- Can teachers also learn through inquiry-based situations?
- Facilitator provides learner-centered questions
- Impact of learner-centered facilitation on teachers professional development during a LS



Conceptual framework:

- Self determination
- Guided autonomy
- Desimone (2009) => conceptual framework for studying the effects of professional development.
- Borko et al (2010) => characteristics of effective professional development.
- \diamond Miles et al. (2014) => data analysis



General information:

- 6 mathematics and natural science teachers
- 2 facilitators
 - Pedagogic
 - Subject Didactic (teaching methods)
- 2 Knots (Knowledgeable others)
 - Overview of the entire process, research
 - Lesson, final debriefing



Data Collection:

- 1 LS Cycle
- 9 Meetings (6 months)
- 1 Lesson
- 1 Debriefing
- Survey (initial & final)
- \$=> cross-check with meeting recordings
- Qualitative analysis: according to Miles et al (2014)



Preliminary Results: questionnaire

- Q1: What is your definition of LS?
- design a 'good' lesson, think for yourself and learn a lot about the subject discussed
- reflection on a teaching sequence, take into account as many parameters as possible
- Q2: What is your definition of LS?
- a study of student learning
- preparation of a lesson, identification of learning objectives, definition of student learning steps
- Q1: Expectations from Facilitators
- coaching, guiding
- refocusing on the fundamentals of teaching (assessment, differentiation, obj.) that can be lost sight of in the heat of the moment
- Q2: Expectations from Facilitators
 - I don't know how to say it, it oriented my thoughts 'in the shower',... But I think that this time of reflection is the most important
 - Allow the group to question itself and take into account the students, find some confidence in students' abilities





Preliminary Results: questionnaire

Initial Questionnaire

- Due to prior LS experience it was expected that 50% of the teachers would have had a clear idea of the LS process and the role of facilitators during LS (actual results 0% in both cases)
- Results show that teachers expect reflection, guidance, advice and analysis from the facilitator
- *Teachers show an attitude equivalent to what they assume in all in-service training (i.e. passivity to the process, they expect to be given knowledge, showed a lack of autonomy of thought)

Final Questionnaire

- Teachers are more closely analysing the role of facilitators (i.e. facilitators are a support, not a director)
- *Teachers analyse more closely the effects of the LS on their "gaps" (i.e. more independent thought)
- Teachers analyse more closely the effects of the LS on their professional practices (i.e. thinking more of pupil needs)





Conclusions:

- During an LS cycle facilitated through learnercentered questions, teachers improve:
- Their metacognition
- Their reflective practice
- Their focus on student needs



Conclusions:

- Next cycle 2019-2020
- Re-plan a learner-centered facilitation with a new group
- Improve and complete data collection
- 1. Adding DASTT-C and TSC
 - 1. Hoznour, Grigioni Baur, Didier, 2019. How to Represent Thought Through Drawing: a Study of the DASTT-C in Switzerland - a Work in Progress, Manuscript submitted
 - 2. Morago & Grigioni-Baur(Wals 2017)
 - 3. Hoznour & Grigioni Baur LS as a tool for developing reflective thinking in science preservice teachers, Wals2019
- 2. Adding a case survey on preconceptions about lesson planning
- 3. If necessary adding a demonstration lesson (Grigioni Baur & Morago, Wals 2017)



