





Latvijas Universitātes Starpnozaru izglītības inovāciju centrs

A Collaborative Classroom-Based Teacher Professional Learning Model

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Latvian education background

- Various reforms since 2008 demand changes in teaching representing deep learning (Fullan & Langworthy, 2013) and inquiry-based approaches
- Teachers lack formal education on teaching strategies (how to facilitate group work, conduct formative assessment, set learning goals for students etc.) (Volkinsteine et al. 2014)

Conceptual models



Model for teacher change (Guskey, 2002)



Dimensions of teacher professional development

ACTION: experimental, constructive and goal-directed work

REFLECTION: (self-) criticism of one's own actions

AUTONOMY: self-initiating, organized and determined work;

NETWORKING: communicative and cooperative work with increasing public relevance

(Zehetmeier, et al. 2015)

Why professional learning models?

- Professional training models with in-service courses inefficient for actual changes to happen (Fullan, 2011a)
- Traditional teacher professional training models have only a minor effect on classroom practices (Fullan 2011b)
- Therefor main elements proposed:



Teacher learning model (Namsone & Cakane, 2018)



Piloting of the model in Latvian schools



Participants

- Teams consisting of math and science teachers
- Another group of teams with primary school teachers
- Each team has an coach and a school administration representative involved
- Teams visit other schools & do lesson observation and daylong workshops for analysis and reflection
- Individual assignements
- 2 school years with ~40h of collaborative professional learning

National networking



Role of each teacher

- Leader leading a classroom lesson observed by colleagues
- Learner observing, analysing & reflecting on colleagues' teaching and students' learning



Structure of workshops (1st phase)



Structure of workshops (2nd phase)



Lesson study

- Lesson study is a *systematic inquiry into teaching practice* which happens to be carried out by examining lessons (Fernandez, 2002)
- Functions as a form of professional development that encourages teachers to develop their own communities of inquiry (Doing & Groves, 2011)
- Improvement of interpersonal relationships with other teachers (Lewis, 2009)
- Feeling ownership of their instructional methods (Lewis, 2009)

Lesson observation cycle



Sources for data collection

Various data sources to determine the effect of the model:

- Teacher questionnaires (teaching skills, performance, reflection, collaboration skills, factors for training, growth, support needs)
- Opinion: Likert scale 5 "yes, agree completely", 0 "definitely not"
- Participants evaluated different aspects and effects of the collaboration model and specific benefits (also written feedback)
- Focus groups of coaches
- Transcripts from teacher discussion groups
- School administrator survey and motivation letters



Results

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Improved factors of teacher professional learning	Percentage of responses
Survey contains testimonies such as: The workshops have improved my lesson planning and leading skills, while at the same time developing students' scientifc inquiry skills	41% completely agree 45% agree
leading and analyzing lessons helped evaluate strengths and weaknesses	62% completely agree 30% agree
Improved skills to reflect on performance together with colleagues	58% completely agree 39% agree
Presence of stress	30%
Collaboration with colleagues helped improve teaching and lesson evaluation skills	88%
Improved ability to accept given feedback	91%
Improved ability to give feedback to colleagues	80%
Improved lesson observation and analysis skills through collaboration	77%

Improved factors of teacher professional learning (continued)	Percentage of responses
Immersed in their professional work	77%
Improved skills through collaboration with other teachers	71%
Viewed participation in seminars as extremely beneficial	96%
Teachers admit that collaboration with colleagues enabled them to more readily share ideas and experiences (<i>defnitely yes, yes</i>)	88% 1st group 100% 2nd group
Acquisition of common values (teaching philosophy) (<i>defnitely yes, yes</i>)	93% 1st group 77% 2nd group
Collaboration with colleagues developed trust in mutual relationships and provided a sense of safety (<i>defnitely yes, yes</i>)	86% 1st group 82% 2nd group
Sense of satisfaction and support (<i>defnitely yes, yes</i>)	89% 1st group 88% 2nd group
Positive emotions	89% 1st group 86% 2nd group

Results: directly learning from other teachers

 Teachers observed new teaching and learning skills (including scientific inquiry) in colleagues' lessons and transfered to their own classroom

Finally I saw group work that I could learn from

Colleagues often find more positive than I do myself. This is very inspiring ***

I learned several "tricks" from other people that I can use in my lessons

When I lead a lesson and get feedback I often find out things I was not even aware of

Results: higher levels of reflection

- Leading and analyzing lessons helps evaluate strengths and weaknesses and improves skills to reflect on performance together with colleagues
- Improves ability to accept and give feedback to colleagues
- Developing a need to reflect on performance and to collaborate with colleagues
- It is important to emphasize that the model combines individual reflections and group reflections

I learned to understand what my actual knowledge and skills were and what I had assumed I knew and was able to perform

Coaches and colleagues help me to understand whether I am going in the right direction

Results: new leadership skills

- Teachers expressed a desire to become teacher-leaders
- Lesson analysis based on emphasizing the positive
- Sense of achievement and rising self-esteem
- Leading a lesson observation stimulates to do your best and transfer new knowledge to clasroom practice

Demonstration of best practices is really helpful – we can watch other teachers perform, and this encourages us to take over the good practices

Main conclusions

- Knowledge acquired in the workshops is successfully transferred to classroom practice
- The new model can inspire changes in the practices of those teachers who lack familiarity with different teaching paradigms
- Ownership: chicken and egg dilemma
- Deeper changes in teaching philosophy and practice require regular reflection

How changes occur and disseminate: "the hazeInut model"



Limitations to be taken into account

- Live classroom observation is advised
- The quality of demonstration in the observed lessons
- Stress element during observations = High level of trust is needed
- Long-term work relationship between coaches and teachers
- Coaches need to carefully give feedback and make it positive
- Rescheduling lessons for inter-school visits can be demanding
- School administration support is highly needed!
- Needs both individual and group reflection



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