Teaching resources and teachers’ professional development: towards a documentational approach of didactics

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CERME 6 - Feb 2009 - Lyon - Working Group 7
From digital resources to teachers’ documentation work

A new perspective on teachers’ *professional development*
A context of generalized availability of digital resources for teachers
Previous work about *ICT integration* (Guin et al. 2005), teacher training with a distant platform (Guin & Trouche 2005), e-exercises (Bueno-Ravel & Gueudet 2007)
A general notion of *resource*: « Our conception of a *resourced teacher* then becomes a teacher acting with material and socio-cultural resources » (Adler 2000)
A focus on teachers’ *documentation work*, out of class and in class
Teachers’ resources and documents

Documentational genesis:

✓ a teacher develops a document from a set of resources;
✓ the document associates resources, and a cognitive structure, professional knowledge;
✓ a double instrumentalization/instrumentation movement: the teacher shapes the resources, and the resources frame the teacher’s choices and craft knowledge
Introducing the circle’s area

Various resources: a website, an IWB…

Marie-Pierre selects pieces of these resources, recombines them, sets up the course in class, writes on the IWB and records a paperboard for her students.

*Operational invariant, professional knowledge* (example!): “a new area formula must be justified by a cutting and recombining of the pieces to form a figure whose area is known”
Further questions

Methodology: studying the teachers’ documentation work, various times and places, a challenge?
Documentation/orchestration
Structure of the *documentation systems.structure of activity*
Collective dimensions: a key issue.


References


Guin, D., & Trouche, L. (2005), Distance Training, a Key Mode to Support Teachers in the Integration of ICT? Towards collaborative conception of living pedagogical resources, in M. Bosch (Ed.), *Proceedings of CERME 4*, St Felix de Guixols, Spain.

Further details

A paper (online, to be published):


A website dedicated to this documentational approach (Gueudet, G., & Trouche, L.), possible and necessary (for us!) comments:

http://educmath.inrp.fr/Educmath/recherches/projets-de-recherche/approche_documentaire