

Séminaires de l'unité de recherche éducationnelle en mathématiques

Mathematics Educational Research Unit Seminars

**Problématiques actuelles et nouvelles directions pour la formation mathématique des enseignants de mathématiques du secondaire /
Salient issues and new directions in the *mathematical* preparation of secondary mathematics teachers**

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Dans cette présentation, j'offrirai un aperçu des orientations actuelles et des résultats de recherches portant sur les connaissances mathématiques des enseignants du secondaire en mathématiques. Par la suite, je discuterai de la perspective qui oriente mes propres travaux, ainsi que des résultats et retombées de ces recherches.

In this short presentation, I review aspects of the research literature about issues concerning the mathematical knowledge of secondary mathematics teachers and discuss current research orientations. This will then lead me to address the orientation in which my own work is situated and to elaborate on findings that are being attained through these initiatives.

La présentation sera bilingue / The presentation will be bilingual.

Secondary school mathematics teachers' views of manipulatives and their use in the classroom

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Mathematical manipulative materials (manipulatives) invite students to explore and represent abstract mathematical ideas in varied, concrete, tactile, and visually rich ways. Given the prominent use of mathematical manipulatives in current K-12 curricula, pedagogical resources and professional development, why do research studies continue to find that few secondary school teachers use them? Are manipulatives for real math or are they just toys for younger learners and props for struggling students? This discussion details a research study that will examine secondary school teachers' views of manipulatives for learning and teaching mathematics, and how, when and why they are used in the classroom.

The presentation will be in English.