



Science of Learning
Strategic Research Theme
Meeting of Minds Series

Learner Expertise and Mathematics
Different Order Thinking Skills in Multimedia Learning

Speakers: Dr Thomas Chiu and Dr. Ida Mok

Respondent: Prof. Stanislas Dehaene (SoL-SRT visiting scholar)
Prof. Carlo Semenza

Date: 10th December 2015 (Thursday)

Time: 12:30-2:00 pm

Venue: Room 203 Runme Shaw Building [Refreshments will be served]

Chair: Prof. Carol Chan

Abstract

The seminar will present a design of digital material for mathematics concept learning. The material was developed using multimedia learning principles to maximize the use of learner cognitive capacity. We will share how learner expertise and multimedia design affect the development of different mathematical order thinking skills, and suggest useful practical implications for instructional designers and teachers.

About the speakers



Dr Thomas Chiu is a lecturer in the Division of Information and Technology Studies in the Faculty of Education. His research areas include

multimedia learning, cognitive learning, as well as mathematics and technology education.



Dr. Ida Mok is currently Associate Dean and Associate Professor in the Faculty of Education at the University of Hong Kong. Her research

interests include mathematics education, technology in mathematics education, comparative studies in mathematics education, teaching and learning, teacher education, pedagogical content knowledge, and lesson study.

About the respondents



Professor Stanislas Dehaene is Chair of Experimental Psychology at the Collège de France and Director of INSERM Unit Cognitive Neuroimaging.

His research spans numerical cognition, neural basis of reading and neural correlates of consciousness.



Prof. Carlo Semenza is a full Professor of Neuropsychology in the Cognitive Neuroscience Centre, University of Padova, Italy. His research

interests concern all areas of neuropsychology, particularly, language. His work has been published in journals including Nature, Brain, Language and Cognitive Processes, Cognitive Neuropsychology and Neuropsychologia.



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