

LEARNING AND INSTRUCTION

An Official Journal of the European Association for Research on Learning and Instruction

Website <http://elsevier.com/locate/learninstruc/>

Association Website <http://www.earli.org>

Volume 29 2014

Contents

STUDENT RATINGS OF TEACHING QUALITY IN PRIMARY SCHOOL: DIMENSIONS AND PREDICTION OF STUDENT OUTCOMES	1
B. Fauth, J. Decristan, S. Rieser, E. Klieme and G. Büttner	
EXTENDING SOCIAL CUE BASED PRINCIPLES OF MULTIMEDIA LEARNING BEYOND THEIR IMMEDIATE EFFECTS	10
J. Töpper, M. Glaser and S. Schwan	
READING ACHIEVEMENT AND READING SELF-CONCEPT – TESTING THE RECIPROCAL EFFECTS MODEL	21
J. Retelsdorf, O. Köller and J. Möller	
IMPROVING CRITICAL THINKING: EFFECTS OF DISPOSITIONS AND INSTRUCTIONS ON ECONOMICS STUDENTS' REASONING SKILLS	31
A. Heijltjes, T. van Gog, J. Leppink and F. Paas	
SCIENTIFIC REASONING IN ELEMENTARY SCHOOL CHILDREN: ASSESSMENT AND RELATIONS WITH COGNITIVE ABILITIES	43
D. Mayer, B. Sodian, S. Koerber and K. Schwippert	
USING HEURISTIC WORKED EXAMPLES TO PROMOTE INQUIRY-BASED LEARNING	56
Y.G. Mulder, A.W. Lazonder and T. de Jong	
COGNITIVE MECHANISMS UNDERLYING READING AND SPELLING DEVELOPMENT IN FIVE EUROPEAN ORTHOGRAPHIES	65
K. Moll, F. Ramus, J. Bartling, J. Bruder, S. Kunze, N. Neuhoff, S. Streiftau, H. Lyytinen, P.H.T. Leppänen, K. Lohvansuu, D. Tóth, F. Honbolygó, V. Csépe, C. Bogliotti, S. Iannuzzi, J.-F. Démonet, E. Longeras, S. Valdois, F. George, I. Soares-Boucaud, M.-F. Le Heuzey, C. Billard, M. O'Donovan, G. Hill, J. Williams, D. Brandeis, U. Maurer, E. Schulz, S. van der Mark, B. Müller-Myhsok, G. Schulte-Körne and K. Landerl	

Contents continued on inside back cover

Contents continued from outside back cover

STRATEGIC COUNTING: A NOVEL ASSESSMENT OF PLACE-VALUE UNDERSTANDING W.W.L. Chan, T.K. Au and J. Tang	78
THE PARADOXICAL EFFECT OF CONTROLLING CONTEXT ON INTRINSIC MOTIVATION IN ANOTHER ACTIVITY R. Radel, L. Pelletier, D. Baxter, M. Fournier and P. Sarrazin	95
PROCRASTINATION AND SELF-EFFICACY: TRACING VICIOUS AND VIRTUOUS CIRCLES IN SELF-REGULATED LEARNING K. Wäschle, A. Allgaier, A. Lachner, S. Fink and M. Nückles	103
THE POWER OF ANTICIPATED FEEDBACK: EFFECTS ON STUDENTS' ACHIEVEMENT GOALS AND ACHIEVEMENT EMOTIONS R. Pekrun, A. Cusack, K. Murayama, A.J. Elliot and K. Thomas	115

**Special Section:
Cognitive and Affective Processes in Multimedia Learning**

Guest Editors
Babette Park, Jan L. Plass and Roland Brünken

COGNITIVE AND AFFECTIVE PROCESSES IN MULTIMEDIA LEARNING B. Park, J.L. Plass and R. Brünken	125
EMOTIONAL DESIGN IN MULTIMEDIA LEARNING: EFFECTS OF SHAPE AND COLOR ON AFFECT AND LEARNING J.L. Plass, S. Heidig, E.O. Hayward, B.D. Homer and E. Um	128
TRIGGERING SITUATIONAL INTEREST BY DECORATIVE ILLUSTRATIONS BOTH FOSTERS AND HINDERS LEARNING IN COMPUTER-BASED LEARNING ENVIRONMENTS U.I.E. Magner, R. Schwonke, V. Alevan, O. Popescu and A. Renkl	141
CONFUSION CAN BE BENEFICIAL FOR LEARNING S. D'Mello, B. Lehman, R. Pekrun and A. Graesser	153
INCORPORATING MOTIVATION INTO MULTIMEDIA LEARNING R.E. Mayer	171
MOTIVATION AND EMOTION AS MEDIATORS IN MULTIMEDIA LEARNING D. Leutner	174