



# Explorations in Learning and the Brain: On the Potential of Cognitive Neuroscience for Educational Science

Ton de de Jong, Tamara van Gog, Kathleen Jenks, Sarah Manlove, Janet van Hell, Jelle Jolles, Jeroen van Merrienboer, Theo van Leeuwen, Annemarie Boschloo

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This volume presents a short review study of the potential relationships between cognitive neuroscience and educational science. Conducted by order of the Dutch Programme Council for Educational Research of the Netherlands Organization for Scienti c Research (NWO; cf. the American NSF), the review aims to identify: (1) how educational principles, mechanisms, and theories could be extended or re ned based on ndings from cognitive neuroscience, and (2) which neuroscience prin- ples, mechanisms, or theories may have implications for educational research and could lead to new interdisciplinary research ventures. The contents should be seen as the outcome of the 'Explorations in Learning and the Brain' project. In this project, we started with a 'quick scan' of the lite- ture that formed the input for an expert workshop that was held in Amsterdam on March 10-11,2008. This expert workshopidenti ed additional relevant themesand issues that helped us to update the 'quick scan' into this nal document. In this way the input from the participants of the expert workshop (listed in Appendix A) has greatly in uenced the present text. We are therefore grateful to the participants for their scholarly and enthusiastic contributions. The content of the current volume, however, is the full responsibility of the authors.



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