



Universiteit
Leiden

The Netherlands

What you read vs. what you know: a methodologically diverse approach to unraveling the neurocognitive architecture of text-based and knowledge-based validation processes during reading

Moort, M.L. van

Citation

Moort, M. L. van. (2022, March 3). *What you read vs. what you know: a methodologically diverse approach to unraveling the neurocognitive architecture of text-based and knowledge-based validation processes during reading*. Retrieved from <https://hdl.handle.net/1887/3278025>

Version: Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/3278025>

Note: To cite this publication please use the final published version (if applicable).

What you read vs. what you know:

A methodologically diverse approach to unraveling the neurocognitive architecture of text-based and knowledge-based validation processes during reading

Marloes van Moort

ISBN: 978-94-6421-642-4

Cover design: ©evelienjagtman.com

Printed by : Ipskamp Printing | proefschriften.net

Copyright © M. L. van Moort, 2022

All rights reserved. No parts of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, mechanically, by photocopy, by recording, or otherwise, without prior written permission of the author or, when appropriate, from the publishers of the publications.

What you read vs. what you know:

A methodologically diverse approach to unraveling the
neurocognitive architecture of text-based and
knowledge-based validation processes during reading

Proefschrift

ter verkrijging van de graad van doctor aan de Universiteit Leiden,
op gezag van rector magnificus prof.dr.ir. H. Bijl,
volgens besluit van het college voor promoties
te verdedigen op donderdag 3 maart 2022
klokke 11.15 uur

door

Marianne Louise van Moort
geboren te Zoetermeer
23 januari 1989

Promotor:

Prof.dr. P. van den Broek

Copromotor:

Dr. A.W. Koornneef

Promotiecommissie:

Prof.dr. L. R. A. Alink (Wetenschappelijk Directeur Instituut Pedagogische Wetenschappen/Voorzitter)

Prof.dr. S. T. Nieuwenhuis

Prof.dr. P. C. J. Segers (Radboud University)

Prof.dr. J. A. L. Hoeken (Utrecht University)

Prof.dr. T. Richter (University of Würzburg)

Table of Contents

Chapter 1	General Introduction	7
Chapter 2	Validation: Knowledge- and text-based monitoring during reading	29
Chapter 3	What you read vs what you know: Neural correlates of accessing context information and background knowledge in constructing a mental representation during reading	55
	Supplementary Materials	91
Chapter 4	Differentiating text-based and knowledge-based validation processes during reading: Evidence from eye movements	99
Chapter 5	Purposeful validation: Are validation processes and the construction of a mental representation influenced by reading goal?	127
Chapter 6	Summary and General Discussion	163
	Nederlandse Samenvatting (Summary in Dutch)	189
	References	209
	Dankwoord (acknowledgements in Dutch)	229
	Curriculum Vitae	233
	List of Publications	237