

University of Groningen

## Classroom Formative Assessment

van den Berg, Marian

**IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.**

*Document Version*

Publisher's PDF, also known as Version of record

*Publication date:*

2018

[Link to publication in University of Groningen/UMCG research database](#)

*Citation for published version (APA):*

van den Berg, M. (2018). *Classroom Formative Assessment: A quest for a practice that enhances students' mathematics performance*. Rijksuniversiteit Groningen.

### Copyright

Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

### Take-down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

*Downloaded from the University of Groningen/UMCG research database (Pure): <http://www.rug.nl/research/portal>. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.*

# Classroom Formative Assessment

A quest for a practice that enhances students'  
mathematics performance

Marian van den Berg



Interuniversity Center for Educational Sciences

This study was financed by NWO-PROO.

ISBN: 978-94-034-0834-7 (printed version)

ISBN: 978-94-034-0833-0 (electronic version)

Cover design: Marian van den Berg

Printed by: GVO drukkers & vormgevers B.V.

© 2018, GION education/research, Groningen Institute for Educational Research, University of Groningen

No part of this publication may be reproduced in any form, by print, photo print, microfilm or any other means without written permission of the director of the institute.

Niets uit deze opgave mag verveelvoudigd en/of openbaar gemaakt worden door middel van druk, fotokopie, microfilm of op welke wijze dan ook zonder de voorafgaande schriftelijke toestemming van de directeur van het instituut.



rijksuniversiteit  
groningen

# **Classroom Formative Assessment**

A quest for a practice that enhances students'  
mathematics performance

## **Proefschrift**

ter verkrijging van de graad van doctor aan de  
Rijksuniversiteit Groningen  
op gezag van de  
rector magnificus prof. dr. E. Sterken  
en volgens besluit van het College voor Promoties.

De openbare verdediging zal plaatsvinden op

maandag 17 september 2018 om 14.30 uur

door

**Marian van den Berg**

geboren op 8 mei 1985  
te Norg

**Promotor**

Prof. dr. R. J. Bosker

**Copromotor**

Dr. C. J. M. Suhre

**Beoordelingscommissie**

Prof. dr. M. J. Goedhart

Prof. dr. S. E. McKenney

Prof. dr. K. Van Veen

# Contents

<b>Chapter 1</b>	<b>7</b>
General Introduction	
<b>Chapter 2</b>	<b>17</b>
Developing Classroom Formative Assessment in Dutch Primary Mathematics Education	
<b>Chapter 3</b>	<b>45</b>
Implementing Classroom Formative Assessment in Dutch Primary Mathematics Education	
<b>Chapter 4</b>	<b>81</b>
Testing the Effectiveness of Classroom Formative Assessment in Dutch Primary Mathematics Education	
<b>Chapter 5</b>	<b>117</b>
Classroom Formative Assessment and its Relationship with Teachers' Knowledge of Mathematical Errors and Learning Trajectories	
<b>Chapter 6</b>	<b>145</b>
General Conclusion and Discussion	
<b>Appendices</b>	<b>159</b>
<b>Dutch Summary</b>	<b>189</b>
<b>References</b>	<b>201</b>
<b>Curriculum Vitae</b>	<b>215</b>
<b>Acknowledgements (in Dutch)</b>	<b>217</b>
<b>ICO Dissertation Series</b>	<b>221</b>

