Susanne Kuger • Eckhard Klieme
Nina Jude • David Kaplan
Editors

Assessing Contexts of Learning

An International Perspective

Contents

Part I Introduction

1 **Dimensions of Context Assessment** 3
Susanne Kuger and Eckhard Klieme

2 **The Assessment of Learning Contexts in PISA** 39
Nina Jude

3 **The Methodology of PISA: Past, Present, and Future** 53
David Kaplan and Susanne Kuger

4 **An Introduction to the PISA 2015 Questionnaire Field Trial: Study Design and Analysis Procedures** 75
Susanne Kuger, Nina Jude, Eckhard Klieme, and David Kaplan

Part II Student Background

5 **Social Background** 117
Rainer Watermann, Kai Maaz, Sonja Bayer, and Nina Roczen

6 **Ethnicity and Migration** 147
Svenja Vieluf

7 **Early Childhood Learning Experiences** 179
Yvonne Anders, Hans-Günther Roßbach, and Susanne Kuger

8 **Parental Support and Involvement in School** 209
Silke Hertel and Nina Jude

Part III Outcomes of Education Beyond Achievement

9 **Bias Assessment and Prevention in Noncognitive Outcome Measures in Context Assessments** 229
Fons J.R. van de Vijver and Jia He

10 General Noncognitive Outcomes 255
Jonas P. Bertling, Tamara Marksteiner, and Patrick C. Kyllonen

11 Dispositions for Collaborative Problem Solving 283
Kathleen Scalise, Maida Mustafic, and Samuel Greiff

12 Science-Related Outcomes: Attitudes, Motivation, Value Beliefs, Strategies 301
Anja Schiepe-Tiska, Nina Roczen, Katharina Müller, Manfred Prenzel, and Jonathan Osborne

13 ICT Engagement in Learning Environments 331
Frank Goldhammer, Gabriela Gniewosz, and Johannes Zylka

Part IV Learning in Schools

14 A Dynamic Perspective on School Learning Environment and Its Impact on Student Learning Outcomes 355
Leonidas Kyriakides and Bert P.M. Creemers

15 Building More Effective Education Systems 375
Gregory Elacqua

16 Curriculum and Learning Time in International School Achievement Studies 395
Susanne Kuger

17 Science Teaching and Learning in Schools: Theoretical and Empirical Foundations for Investigating Classroom-Level Processes 423
Katharina Müller, Manfred Prenzel, Tina Seidel, Anja Schiepe-Tiska, and Marit Kjærnsli

18 Teacher Qualifications and Professional Knowledge 447
Franz Klingebiel and Eckhard Klieme

19 Assessment and Evaluation in Educational Contexts 469
Sonja Bayer, Eckhard Klieme, and Nina Jude

Acknowledgements 489