Contents

Foreword: Capturing the Landscape of Educational Psychology Today x
Lyn Corno and Eric M. Anderman

Acknowledgments xiii
Advisory Board Members xiii
List of Reviewers xiii

Part I. Psychological Inquiry in Education **1**

1. Philosophical Perspectives on Mind, Nature, and Educational Psychology 3
Eric Bredo

2. Modes of Inquiry in Educational Psychology and Learning Sciences Research 16
William R. Penuel and Kenneth A. Frank

3. The Work of Educational Psychologists in a Digitally Networked World 29
Punya Mishra, Matthew J. Koehler, and Christine Greenhow

4. The Prospects and Limitations of Latent Variable Models in Educational Psychology 41
Benjamin Nagengast and Ulrich Trautwein

Part II. Functional Processes for Learning **59**

5. Learning as Coordination: Cognitive Psychology and Education 61
Daniel L. Schwartz and Robert Goldstone

6. Emotions and Emotion Regulation in Academic Settings 76
Monique Boekaerts and Reinhard Pekrun

7. Motivation 91
Lisa Linnenbrink-Garcia and Erika A. Patall

8. Volition 104
Gabriele Oettingen, Jana Schrage, and Peter M. Gollwitzer

Part III. Learner Readiness and Development **119**

9. Human Cognitive Abilities: Their Organization, Development, and Use 121
Patrick C. Kyllonen

10. Cognition and Cognitive Disabilities 135
H. Lee Swanson

11. Personal Capability Beliefs 146
Ellen L. Usher

12. Motivation Interventions in Education: Bridging Theory, Research, and Practice 160
Chris S. Hulleman and Kenn E. Barron

13. Beyond the Shadow: The Role of Personality and Temperament in Learning 172
Arthur E. Poropat

14. Cultural, Racial/Ethnic, and Linguistic Diversity and Identity 186
Na'ilah Suad Nasir, Stephanie J. Rowley, and William Perez

15. Language Development 199
Alison L. Bailey, Anna Osipova, and Kimberly Reynolds Kelly

16. Character Education, Moral Education, and Moral-Character Education 213
Cary J. Roseth

Part IV. Building Knowledge and Subject Matter Expertise **227**

17. Literacy for Schooling:Two-Tiered Scaffolding for Learning and Teaching 229
Ian A. G. Wilkinson and Janet S. Gaffney

18. Warm Change about Hot Topics: The Role of Motivation and Emotion in Attitude and Conceptual Change about Controversial Science Topics 245
Gale M. Sinatra and Viviane Seyranian

19. Toward an Educational Psychology of Mathematics Education 257
Jon R. Star and Bethany Rittle-Johnson

20. Functional Scientific Literacy: Seeing the Science within the Words and Across the Web 269
Iris Tabak

21. Studying Historical Understanding 281
Chauncey Monte-Sano and Abby Reisman

22. Civic Education 295
Mario Carretero, Helen Haste, and Angela Bermudez

Part V. The Learning and Task Environment **309**

23. Sociocultural Perspectives on Literacy and Learning 311
David O'Brien and Theresa Rogers

24. Learning Environments In and Out of School 323
Brigid Barron and Philip Bell

25. Networked Learning 337
Gary Natriello

26. Collaborative Learning 349
Cindy E. Hmelo-Silver and Clark A. Chinn

27. Black and Hispanic Students: Cultural Differences within the Context of Education 364
Donna Y. Ford

28. Dialogic Instruction: A New Frontier 378
Sherice N. Clarke, Lauren B. Resnick, and Carolyn Penstein Rosé

29. Assessment Illuminating Pathways to Learning 390
Ellen B. Mandinach and Andrea A. Lash

30. Being a Teacher: Efficacy, Emotions, and Interpersonal Relationships in the Classroom 402
Lynley H. Anderman and Robert M. Klassen

Afterwords

I. Perspectives on the Past, Present, and Future of Educational Psychology 415
Frank Farley, Patricia A. Alexander, Eva L. Baker, David C. Berliner, Robert C. Calfee, Erik De Corte, James G. Greeno, Anita Woolfolk Hoy, and Richard E. Mayer

II. On Impact Beyond the Field 433
Eric M. Anderman and Lyn Corno

Contributor Bios 435
Author Index 443
Subject Index 466