LEARNING AND STUDY STRATEGIES

Issues in Assessment, Instruction, and Evaluation

Edited by

Claire E. Weinstein
Department of Educational Psychology
College of Education
University of Texas
Austin, Texas

Ernest T. Goetz
Department of Educational Psychology
College of Education
Texas A&M University
College Station, Texas

Patricia A. Alexander
Department of Educational Curriculum and Instruction
College of Education
Texas A&M University
College Station, Texas

Academic Press
San Diego New York Boston
London Sydney Tokyo Toronto

CONTENTS

Contributors xiii
Preface xv

PART I. INTRODUCTION: TWO PERSPECTIVES ON LEARNING AND STUDY STRATEGIES

1. The Need for Study Strategy Training 3
W. J. McKeachie

2. Learning Strategies: An Overview 11
Richard E. Mayer

I. Three Views of Learning 12
II. Four Components of Learning 14
III. Can Students Learn to Manipulate Their Cognitive Processes? 18
IV. An Example 20
V. Research Issues 21
VI. General Conclusion 21
References 22

PART II. ISSUES IN THE ASSESSMENT OF LEARNING AND STUDY STRATEGIES

3. Assessing Learning Strategies: The Design and Development of the LASSI 25
Claire E. Weinstein, Stephen A. Zimmerman, and David R. Palmer

I. Issues in the Assessment of Learning Strategies 26
II. LASSI—Early Developmental Stages 28

III. Preliminary Pilot Test 30
IV. Revision of the LASSI Item Pool 32
V. Second Pilot Test 32
VI. Construction of the LASSI Scales 33
VII. Test–Retest Reliability 34
VIII. Validity and Norms 34
IX. Concluding Comment 36
X. Appendix: Brief Descriptions of LASSI Scales and Sample Items 36
References 39

4. Selection and Use of Study Strategies: The Role of the Studier's Beliefs about Self and Strategies 41
Douglas J. Palmer and Ernest T. Goetz

I. Conceptual Frameworks 43
II. Attribution Theory 46
III. Self-Efficacy Theory 49
IV. Learner Variables and Strategy Use 51
V. An Empirical Look at the Model 53
VI. Implications 55
References 57

5. Verbal-Report Data on Cognitive and Metacognitive Strategies 63
Ruth Garner

I. Strategies: What Are They? 64
II. Verbal-Report Methods 65
III. Criticisms of Verbal Reports as Data 67
IV. Other Methods for Assessing Strategies 71
References 74

6. The Role of Attention in Studying and Learning 77
Ralph E. Reynolds and Larry L. Shirey

I. Introduction 77
II. What is Effective Studying? 78
III. The Process of Studying 80
IV. Theoretical Considerations 94
References 98

PART III. APPROACHES TO INSTRUCTION IN LEARNING AND STUDY STRATEGIES

7. Cooperative Learning Strategies 103
Donald F. Dansereau

Development of a Dyadic Cooperative Learning Strategy 104
References 118

8. DIRECT INSTRUCTION OF READING COMPREHENSION STRATEGIES: THE NATURE OF TEACHER EXPLANATION 121
Peter Winograd and Victoria Chou Hare

I. The Nature of Teacher Explanation 121
II. Teacher Explanations in Successful Instructional Studies 124
III. The Value of Complete Explanations in Strategy Instruction 133
IV. Summary 136
References 137

9. MOTIVATIONAL SKILLS TRAINING: COMBINING METACOGNITIVE, COGNITIVE, AND AFFECTIVE LEARNING STRATEGIES 141
Barbara L. McCombs

I. Role of Motivation in Strategic Behavior 141
II. An Integrative Model of Processes underlying Intrinsic Motivation to Learn 154
III. Conclusion and Future Research Recommendations 163
References 165

10. INDIVIDUAL DIFFERENCES AND LEARNING STRATEGIES 171
Ronald R. Schmeck

I. Learning Style as a Dimension of Individual Difference 172
II. Inventory of Learning Processes 176
III. Should We Accommodate Personal Characteristics or Try to Change Them? 179
IV. Other Individual Differences Worthy of Study 181
V. Summary 187
References 188

11. IMPLICIT INSTRUCTION OF STRATEGIES FOR LEARNING FROM TEXT 193
Diane Lemonnier Schallert, Patricia A. Alexander, and Ernest T. Goetz

I. Student Diaries 196
II. Student Interviews 202
III. Instructor Interviews 207
IV. General Discussion 208
References 213

12. APPLICATIONS OF LEARNING STRATEGIES BY STUDENTS LEARNING ENGLISH AS A SECOND LANGUAGE 215
J. Michael O'Malley, Rocco P. Russo, Anna Uhl Chamot, and Gloria Stewner-Manzanares

I. Review of Literature 215
II. Descriptive Study 218
III. Training Study 225
References 230

13. TEXT LEARNING STRATEGY INSTRUCTION: GUIDELINES FROM THEORY AND PRACTICE 223
Beau Fly Jones

I. Educational Contexts 223
II. Major Theoretical and Practical Issues 235
III. Concepts and Principles from Practice 245
IV. Concluding Comments 256
References 257

PART IV. EVALUATION OF RESEARCH AND PRACTICE IN LEARNING AND STUDY STRATEGIES

14. EVALUATION OF LEARNING STRATEGIES RESEARCH METHODS AND TECHNIQUES 263
Victor L. Willson

I. Purposes for Learning Strategy Research 264
II. Techniques and Methods Used in Learning Strategies Research 265
III. Conclusion 273
References 273

15. PERSPECTIVES ON STUDY SKILLS TRAINING IN A REALISTIC INSTRUCTIONAL ECONOMY 275
Ernst Z. Rothkopf

I. School Perspectives 275
II. The Research Picture 277
III. Learning Strategies and Educational Styles 278
IV. Elicitation and Maintenance of Learning Activities 281
V. Conclusions 284
References 285

16. A CONSTRUCTIVE REVIEW OF RESEARCH ON LEARNING STRATEGIES 287
M. C. Wittrock

I. Introduction 287
II. The Teaching of Learning Strategies 287
III. A Model of Learners' Thought Processes 289
IV. The Teaching of Reading Comprehension 292
V. A Research Strategy 295

VI. Summary 296
References 297

17. Models and Metaphors of Learning Strategies 299
Scott G. Paris

I. Describing the Unknown 301
II. The Value of Metaphors 309
III. Conclusions 317
References 318

18. Implications of Learning Strategy Research and Training: What It Has to Say to the Practitioner 323
John E. Wilson

I. A High School Learning Strategies/Study Skills Program 323
II. Learning Strategies, Practitioners, and Parents 327
III. Research and Practical Applications 328
IV. Training and Educating Teachers 329
V. Conclusion 330
Reference 331

19. Cognitive Learning Strategies: Implications for College Practice 333
Curtis Miles

I. The Students 334
II. The Faculty 335
III. The Process of Innovation 336
IV. Marketing Cognitive Learning Strategies 338
V. The Role of Research 339
VI. Increasing the Relevance 341
VII. Summary 346
References 346

Index 349