

Contents

Overview	ix
Chapter 1 Approaches to Studying Reasoning	1
Conceptions of Thinking	1
Tests of Thinking	2
The Watson-Glaser Critical Thinking Appraisal	3
The Cornell Critical Thinking Test	5
The Ennis-Weir Critical Thinking Essay Test	7
Chapter 2 Thinking as Levels of Cognitive Complexity	10
The Describer-Explainer Continuum	12
Perry's Positions of Intellectual Development	14
Information Processing Structures	16
Chapter 3 Interpretive Exercises and the Scoring Rationale for Evaluating Levels of Thinking	19
Interpretive Exercises	19
The Holocaust	19
The Bomb Factories	23
The Scoring Rationale for Evaluating Levels of Thinking	24
Perception and Definition of the Situation	24
Imposition of an Organizing Structure	24
Analysis, Support, and Elaboration	25
Levels of Cognitive Complexity	26
Chapter 4 Empirical Studies	28
Experimental Groups	28
School Achievement Variables	30
Relationship to Writing Proficiency	31
Orientation to Learning Variables	33
Correlation with Orientation to Learning Variables	35

xii Contents

Other Measures of Cognitive Ability and Thinking Processes	37
Correlations with Other Thinking Exercises	39
The Two Helmets Test	40
The Jefferson Davis Exercise	40
The Holocaust	41
The Mystery of Pearl Harbor	41
Levels of Thinking and Discourse Structure	43
Generalizing the Cognitive Complexity Approach	46
 Appendix A	 50
Scoring Rationale for Levels of Thinking	50
Levels of Cognitive Complexity	53
 Appendix B	 64
Practice Examples	64
Test Examples	72
 Appendix C Answer Sheet for the Bomb Factories	 78
 References	 80
 Related References	 84
 Index	 94