Contents

Preface Some Results of Testing Educational Psychology Instructions to the Student		ix xiii xvii
Par	t I: About This Book	I
1	What Educational Psychology Contributes to the Teacher	3
	Educational psychology and the aims of the teacher / Problems studied by the educational psychologist / A few comments on the design of this book	
For	Further Reading	7
Par	t II: Research Tools of the Behavioral Scientist	9
2	Collecting Data: Methods for Studying Human Behavior	11
	Describing the development of behavior: observational research techniques / Explaining human behavior: experimental research techniques / Interpreting the results of experimental behavioral research: a look at probability theory / References	
3	Interpreting Data: Averages and Measures of Dispersion	35
	Averages / The mean / The mode / The median / The normal curve / Measures of dispersion / References	
4	Interpreting Data: Correlation Methods	83
	Using the correlation coefficient to describe behavior / Understanding correlation / Interpreting correlations cited in the literature / References	
5	Evaluating Behavior	109
	Should we evaluate in the first place? / A rationale for evaluating behavior / Using behavioral objectives / Goals of evaluation / Learning for mastery / Developing evaluating instruments / Standardized testing: What does it do? / Interpreting the results of standardized tests: Validity and reliability / References	
For	Further Reading	129

Par	t III: Thinking and Understanding	131
6	Intelligence and the IQ Score	133
	What is intelligence? / The causes of intelligence: A study in controversy / IQ tests—what they actually measure / Intelligence tests used with children / Different kinds of IQ scores / Judging the usefulness of an IQ test: Validity and reliability / References	
7	Piaget's Approach to Mental Development	159
	Some generalizations about mental development / A critical analysis of Piaget's research / The educational implications of Piaget's theories / References	
For	Further Reading	181
Par	t IV: Growth and Development	183
8	The Pre-School Child	185
	Some generalizations about growth and development / Growth and development as a function of chronological age / Developmental stages of the child / The effects of the environment on the developing child / Child-rearing techniques: Their effects on development / The effects of pre-school education / References	
9	The Child in School	213
	Reading: An important early cognitive task for the school child / The middle years: Developing self-esteem / Adolescence: A period of crisis / References	
For	Further Reading	233
Par	t V: Learning	237
10	Conditioning	239
	Learning: The associationist approach / Learning: The behaviorist approach / Classical conditioning / Operant conditioning / The role of conditioning in higher-order classroom learning / References	
11	Motivating	271
	Drive-reduction concepts of motivation / An examination of the research evidence / Anxiety: One drive with a strong effect on behavior / Applications of motivation theory to the classroom / References	
For	Further Reading	296

Par	t VI: Theories of Instruction	297
12	Increasing the Efficiency of Instruction	299
	Programmed instruction / Classroom management / Instruction individually prescribed for the student / References	
13	Increasing the Flexibility of Learning	319
	Informal teaching in the British infant schools / Trends toward informal education in the U.S. / The responsive environment: Another response to the crisis in the schools / The results of flexibility in the classroom / References	
For	Further Reading	336
Author Index		339
Subject Index		