

Contents

| | |
|--|-----------|
| Preface | xv |
| Part One The Scientific Basis for Educational Practice | 1 |
| 1 Psychology and the Classroom Teacher | 3 |
| Preview: Key Concepts | 4 |
| Preview Questions | 4 |
| Psychological Bases of Education | 5 |
| Sources of Data of Educational Psychology | 5 |
| Educational Experimentation | 6 |
| Other Sources of Data | 8 |
| Purposes of Educational Psychology | 9 |
| The School and Its Critics | 9 |
| The Role of Educational Psychology | 11 |
| Contributions of Educational Psychology | 12 |
| What Is Teaching? | 14 |
| Emphasis on Growth | 14 |
| Teacher Effectiveness | 15 |
| Highlights of the Chapter | 18 |
| Suggestions for Further Reading | 19 |
| Questions and Projects | 20 |
| Supplementary Readings | 21 |
| Self-Test | 22 |
| 2 Educational Objectives | 25 |
| Preview: Key Concepts | 26 |
| Preview Questions | 26 |
| Goals and Objectives | 26 |
| Sources of Objectives | 26 |
| Behavioral Objectives | 28 |
| Accountability | 33 |

| | | |
|----------|---|-----------|
| | The Taxonomy of Educational Objectives | 35 |
| | Cognitive Domain | 37 |
| | The Affective Domain | 39 |
| | The Psychomotor Domain | 40 |
| | Highlights of the Chapter | 40 |
| | Suggestions for Further Reading | 41 |
| | Questions and Projects | 42 |
| | Self-Test | 42 |
| 3 | Theoretical Perspective | 45 |
| | Preview: Key Concepts | 46 |
| | Preview Questions | 46 |
| | The Nature of Research | 47 |
| | Contemporary Theories of Learning | 49 |
| | Association (Behavioristic) Theories | 50 |
| | Field (Cognitive) Theories | 53 |
| | Other Theories | 57 |
| | Evaluation of Learning Theories | 58 |
| | Major Issues | 58 |
| | Curricular Implications | 61 |
| | Theories of Teaching | 64 |
| | Highlights of the Chapter | 65 |
| | Suggestions for Further Reading | 66 |
| | Questions and Projects | 67 |
| | Self-Test | 67 |
| 4 | The Determinants of Human Behavior | 69 |
| | Preview: Key Concepts | 70 |
| | Preview Questions | 70 |
| | Basic Concepts of Motivation | 71 |
| | The Nature of Motives | 71 |
| | Motives as Determinants of Behavior | 72 |
| | Classification of Motives | 73 |
| | Physiological Needs | 74 |
| | Psychological Needs | 74 |
| | Satisfaction of Needs | 77 |
| | The Drive-Reduction Theory | 79 |
| | Stimulation Theories of Motivation | 81 |
| | Exploratory and Other Stimulation Drives | 82 |
| | The Achievement Motive | 83 |
| | Sensory Deprivation | 85 |
| | Other Theories of Motivation | 85 |

| | |
|--|-----|
| The Self-Concept | 86 |
| Nature and Importance | 86 |
| The School and the Self-concept | 87 |
| Relation to Perception | 90 |
| The Level of Aspiration | 91 |
| Changing the Self-Concept | 92 |
| Anxiety | 93 |
| The Meaning of Anxiety | 93 |
| Reactions to Anxiety | 94 |
| Need for Anxiety | 94 |
| Implications for Educational Practice | 96 |
| The Phenomenal Field | 97 |
| Self-Actualization | 98 |
| The Concept of Becoming | 98 |
| Educational Implications | 100 |
| Highlights of the Chapter | 101 |
| Suggestions for Further Reading | 102 |
| Questions and Projects | 103 |
| Self-Test | 104 |
| | |
| 5 Part Two Children and Their Development | 107 |
| Growth and Development | 109 |
| Preview: Key Concepts | 110 |
| Preview Questions | 110 |
| General Principles | 111 |
| Principles of Heredity | 113 |
| Mendelian Principles | 113 |
| Changes in the Basic Pattern of Development | 114 |
| Principles of Development | 116 |
| Research Strategies | 117 |
| Piaget's Stage Theory of Cognitive Development | 118 |
| Piaget's Stages of Cognitive Development | 120 |
| Educational Implications | 124 |
| Readiness | 127 |
| Development and the Classroom | 129 |
| Developmental Tasks | 129 |
| The Critical Periods Hypothesis | 131 |
| Highlights of the Chapter | 134 |
| Suggestions for Further Reading | 135 |
| Questions and Projects | 135 |
| Self-Test | 136 |

| | | |
|----------|---|------------|
| 6 | The Child as a Growing Organism | 139 |
| | Preview: Key Concepts | 140 |
| | Preview Questions | 140 |
| | Physical Development | 141 |
| | Psychological Implications | 143 |
| | The Advent of Puberty | 143 |
| | The Development of Social Behavior | 145 |
| | The Process of Socialization | 146 |
| | Sex Roles | 147 |
| | The Home as a Socialization Agent | 148 |
| | The School as a Socialization Agent | 149 |
| | The Peer Group as a Socialization Agent | 150 |
| | Group Dynamics | 151 |
| | Cognitive Development | 152 |
| | Aspects of Cognitive Development | 152 |
| | The Nature of Intelligence | 153 |
| | Theories of Intelligence | 155 |
| | Piaget's Theory of Cognitive Development | 158 |
| | The Measurement of Intelligence | 160 |
| | Basic Concepts | 160 |
| | The Mental Growth Curve | 160 |
| | Intelligence Tests | 162 |
| | Range of Individual Differences in Intelligence | 163 |
| | Relation of IQ to Academic Success | 163 |
| | The Cultural Issue | 164 |
| | The Jensen Controversy | 167 |
| | Evaluation of Intelligence Tests | 167 |
| | Constancy of the IQ | 168 |
| | Highlights of the Chapter | 171 |
| | Suggestions for Further Reading | 172 |
| | Questions and Projects | 173 |
| | Self-Test | 174 |
| 7 | Individual Differences | 177 |
| | Preview: Key Concepts | 178 |
| | Preview Questions | 178 |
| | Range of Individual Differences | 179 |
| | Physical Differences | 179 |
| | Sex Differences | 179 |
| | Socioeconomic Differences | 183 |
| | The Culturally Disadvantaged | 183 |
| | The Lower Classes and the School | 184 |
| | Language Deficiencies | 187 |

| | |
|---|-----|
| Bernstein's Theory of Language Development | 189 |
| Compensatory Education | 191 |
| Compensatory Preschool Education | 193 |
| Sesame Street | 196 |
| Age Differences | 196 |
| Intellectual and Academic Differences | 197 |
| Perceptual Style | 198 |
| Dealing with Academic Differences | 199 |
| Promotional Policies | 200 |
| Instructional Procedures | 202 |
| Ability Grouping | 203 |
| Gifted Children | 204 |
| The Role of the Teacher | 206 |
| Highlights of the Chapter | 206 |
| Suggestions for Further Reading | 207 |
| Questions and Projects | 208 |
| Self-Test | 209 |
| | |
| 8 Part Three The Teaching-Learning Process | 211 |
| Nature and Conditions of Learning | 213 |
| Preview: Key Concepts | 214 |
| Preview Questions | 214 |
| The Nature of Learning | 215 |
| Steps in the Learning Process | 216 |
| Some Aspects of the Learning Process | 218 |
| Process versus Product | 218 |
| Laws of Learning | 219 |
| Ausubel's Assimilation Theory of Meaningful Verbal Learning | 220 |
| Meaning | 222 |
| The Nature of Meaning | 222 |
| The Development of Concepts | 223 |
| Practice as a Factor in Meaningful Verbal Learning | 228 |
| Psychomotor Skills | 231 |
| Highlights of the Chapter | 233 |
| Suggestions for Further Reading | 234 |
| Questions and Projects | 235 |
| Self-Test | 235 |
| | |
| 9 Guiding the Learning Process | 237 |
| Preview: Key Concepts | 238 |
| Preview Questions | 238 |
| The Role of Instruction in Learning | 239 |

| | |
|---|------------|
| The Nature of Teaching | 241 |
| New Focus on Teaching | 241 |
| Teaching Variables | 246 |
| Theoretical Perspective | 250 |
| Current Interest in the Technology of Instruction | 251 |
| Mathemagenic Strategies | 251 |
| Common Instructional Strategies | 253 |
| Lecture versus Discussion | 253 |
| The Recitation | 261 |
| Discovery versus Reception Learning | 262 |
| Mastery Learning | 264 |
| Independent Study | 267 |
| Homework | 268 |
| Programmed Instruction | 269 |
| Highlights of the Chapter | 271 |
| Suggestions for Further Reading | 272 |
| Questions and Projects | 273 |
| Self-Test | 273 |
| 10 Classroom Management | 275 |
| Preview: Key Concepts | 276 |
| Preview Questions | 276 |
| Motivation in the Classroom | 277 |
| The Cognitive Position | 278 |
| The Behaviorist Position | 279 |
| Incentives | 283 |
| Reward and Punishment | 285 |
| Success and Failure | 287 |
| Praise and Reproof | 289 |
| Motivational Strategies in the Classroom | 289 |
| Need for Effective Goals | 290 |
| Student and Motivation | 291 |
| Other motivational Techniques | 292 |
| Motivational Style | 293 |
| Discipline in the Classroom | 295 |
| Discipline as an Aspect of Social Growth | 296 |
| Need for Discipline | 297 |
| Maintaining Classroom Discipline | 298 |
| The Meaning of Discipline | 298 |
| Causes of Misbehavior | 299 |
| Types of Student Control | 300 |
| Dealing with Misbehavior | 301 |
| Disciplinary Strategies | 303 |
| Punishment | 306 |

| | | |
|-----------|--|------------|
| | Behavior Modification | 312 |
| | Democratic Discipline | 313 |
| | Classroom Management: A Summary | 315 |
| | Highlights of the Chapter | 317 |
| | Suggestions for Further Reading | 318 |
| | Questions and Projects | 319 |
| | Self-Test | 320 |
| 11 | Retention and Transfer of Training | 323 |
| | Preview: Key Concepts | 324 |
| | Preview Questions | 324 |
| | Retention and Forgetting | 325 |
| | Explanation of Forgetting | 327 |
| | Retention of Meaningful Verbal Learning | 327 |
| | Memory as an Aspect of Information Processing | 330 |
| | Factors Affecting Retention | 332 |
| | Transfer of Training | 335 |
| | Measurement of Transfer | 335 |
| | Theories of Transfer of Training | 336 |
| | Promoting Transfer | 338 |
| | Highlights of the Chapter | 344 |
| | Suggestions for Further Reading | 345 |
| | Questions and Projects | 345 |
| | Self-Test | 346 |
| 12 | Major Instructional Systems | 349 |
| | Preview: Key Concepts | 350 |
| | Preview Questions | 351 |
| | Ausubel's Cognitive Theory of Meaningful Verbal Learning | 351 |
| | Bruner's Discovery Model | 353 |
| | The Humanistic (Phenomenological) Position | 358 |
| | The Free School | 359 |
| | Evaluation of the Humanistic Position | 360 |
| | The Open School | 361 |
| | The Montessori System | 364 |
| | Gagné's Hierarchical Theory of Learning | 364 |
| | The Nature of Instruction | 366 |
| | Gagne's Hierarchy of Learning Contents | 367 |
| | Learning Capabilities versus Knowledge | 377 |
| | Evaluation of Gagne's Cumulative Learning Model | 379 |
| | Highlights of the Chapter | 379 |
| | Suggestions for Further Reading | 381 |
| | Self-Test | 381 |

| | | |
|-----------|---|------------|
| 13 | Measuring Academic Achievement | 385 |
| | Preview: Key Concepts | 386 |
| | Preview Questions | 386 |
| | Measurement in the Classroom | 387 |
| | Functions of an Academic Testing Program | 387 |
| | Recent Criticisms | 389 |
| | The Role of Testing in the Learning Process | 391 |
| | Characteristics of a Good Measuring Instrument | 393 |
| | Validity | 393 |
| | Reliability | 395 |
| | Usability | 395 |
| | Kinds of Tests | 396 |
| | Teacher-made and Standardized Tests | 396 |
| | Objective and Subjective Tests | 397 |
| | Construction of Tests | 399 |
| | Interpretation of the Results of Testing | 400 |
| | Measurement and Evaluation | 400 |
| | The Number System | 401 |
| | Raw versus Derived Scores | 401 |
| | Criterion-referenced versus Norm-referenced Testing | 403 |
| | Grading | 406 |
| | Rationale | 406 |
| | Objections to Grading | 407 |
| | Converting Performance into Grades | 409 |
| | Highlights of the Chapter | 412 |
| | Suggestions for Further Reading | 413 |
| | Questions and Projects | 413 |
| | Self-Test | 414 |
| | | |
| 14 | Part Four Children and Their Adjustment | 417 |
| | Attitudes and Character Development | 419 |
| | Preview: Key Concepts | 420 |
| | Preview Questions | 420 |
| | The Nature of Attitudes | 421 |
| | Development of Attitudes | 422 |
| | Attitudes toward the School | 424 |
| | Changing Attitudes | 425 |
| | Values | 427 |
| | Indoctrination | 428 |

| | | |
|-----------|--|------------|
| | Moral Development | 434 |
| | Instructional Strategies | 434 |
| | The Role of the Home | 437 |
| | Character Development | 438 |
| | Piaget's Concept of Moral Development | 439 |
| | Kohlberg's Theory of Moral Judgment | 440 |
| | Character (Personality) Patterns | 441 |
| | Highlights of the Chapter | 443 |
| | Suggestions for Further Reading | 444 |
| | Questions and Projects | 445 |
| | Self-Test | 446 |
| 15 | Personal and Social Adjustment | 449 |
| | Preview: Key Concepts | 450 |
| | Preview Questions | 450 |
| | The Nature of Adjustment | 451 |
| | The Concept of Adjustment | 451 |
| | Conflict, Frustration, and Anxiety | 451 |
| | Learning and Adjustment | 452 |
| | Personality | 454 |
| | Parental Influence | 455 |
| | Personality Theories | 456 |
| | Erikson's Psychosocial Stage Theory of Personality Development | 457 |
| | Adjustment-Maladjustment: Normality-Abnormality | 460 |
| | Adjustment (Coping) Mechanisms | 463 |
| | The Dropout | 465 |
| | The Underachiever | 467 |
| | Highlights of the Chapter | 468 |
| | Suggestions for Further Reading | 469 |
| | Questions and Projects | 469 |
| | Self-Test | 470 |
| 16 | Mental Health in the Classroom | 473 |
| | Preview: Key Concepts | 474 |
| | Preview Questions | 474 |
| | Extent of the Problem | 475 |
| | Mental Hygiene in the Classroom | 476 |
| | The Nature of Mental Hygiene | 476 |
| | Teachers and Mental Health | 477 |
| | Mental Health Factors in the Classroom | 478 |
| | The Mental Health of the Teacher | 481 |
| | Importance of the Teacher's Mental Health | 481 |
| | Factors Affecting the Mental Health of the Teacher | 482 |
| | Suggestions for Promoting the Mental Health of the Teacher | 485 |

| | |
|---------------------------------|------------|
| Highlights of the Chapter | 488 |
| Suggestions for Further Reading | 488 |
| Questions and Projects | 489 |
| Self-Test | 490 |
| Bibliography | 493 |
| Author Index | 529 |
| Subject Index | 537 |