

Brief Contents

CHAPTER

- 1 Educational Psychology: A Tool for Effective Teaching 2
- 2 Physical and Cognitive Development 32
- 3 Social Contexts and Socioemotional Development 66
- 4 Individual Variations 100
- 5 Sociocultural Diversity 130
- 6 Learners Who Are Exceptional 164
- 7 Behavioural Approaches, Social Cognitive Approaches, and Teaching 202
- 8 The Cognitive Information-Processing Approach and Teaching 236
- 9 Social Constructivist Approaches, Domain-Specific Approaches, and Teaching 274
- 10 Planning, Instruction, and Technology 308
- 11 Motivating Students to Learn 344
- 12 Managing the Classroom 382
- 13 Standardized Tests and Teaching 416
- 14 Assessing Students' Learning 446



Contents

Preface

CHAPTER

1 Educational Psychology: A Tool for Effective Teaching 2

- **The Goals of Educational Psychology** 4
 - Exploring the Field of Educational Psychology 4
 - The Nature of Teaching 6
 - Effective Teaching 7
- **Research in Educational Psychology** 14
 - Why Research Is Important 14
 - The Scientific Research Approach 15
 - Research Methods 18
 - Program Evaluation, Action Research,
and the Teacher-as-Researcher 21
 - Research Challenges 24
 - Crack the Case—The Curriculum Decision* 29
- **Chapter Review** 30
- **Key Terms** 30
- **Professional Development/Portfolio Activities** 31
- **Internet Activities** 31

CHAPTER

2 Physical and Cognitive Development 32

- **Exploring How Children Develop** 34
 - Why Studying Children’s Development
Is Important 34
 - Processes, Periods, and Stages 34
 - Developmental Issues 35
- **Physical Development and Health** 37
 - Growth in Childhood 37
 - Child Health and Education 38

*Self-Assessment 2.1—Am I Physically and
Mentally Healthy?* 40

Pubertal Changes 40

- **Cognitive Development** 43
 - Piaget’s Theory 43
 - Case’s Neo-Piagetian Theory 49
 - Vygotsky’s Theory 50
- **Language Development** 55
 - What Is Language? 55
 - Biological and Environmental Influences 56
 - How Language Develops 57
 - Crack the Case—The Book Report* 63
- **Chapter Review** 64
- **Key Terms** 64
- **Professional Development/Portfolio Activities** 65
- **Internet Activities** 65

CHAPTER

3 Social Contexts and Socioemotional Development 66

- **Contemporary Theories** 68
 - Bronfenbrenner’s Ecological Theory 68
 - Erikson’s Life-Span Development Theory 69
- **Social Contexts of Development** 71
 - Families 71
 - Peers 75
 - Schools 79
- **Socioemotional Development** 83
 - The Self 83
 - Moral Development 86
 - Emotional Development 90
 - Self-Assessment 3.1—How Emotionally
Intelligent Am I?* 92
 - Adolescent Challenges 92
 - Crack the Case—The Fight* 97

- **Chapter Review** 98
- **Key Terms** 98
- **Professional Development/Portfolio Activities** 99
- **Internet Activities** 99

CHAPTER

4 Individual Variations 100

- **Intelligence** 102
 - Exploring Intelligence 102
 - Individual Intelligence Tests 102
 - Individual Tests Versus Group Tests 104
 - Theories of Multiple Intelligences 104
 - Self-Assessment 4.1—Evaluating Myself on Gardner’s Eight Types of Intelligence* 107
 - Controversies and Issues in Intelligence 110
- **Creativity** 116
 - Exploring Creativity 116
 - Teaching and Creativity 117
 - Self-Assessment 4.2—How Good Am I at Fostering Creativity?* 118
- **Learning and Thinking Styles** 119
 - Exploring Learning and Thinking Styles 119
 - Systems of Styles 120
- **Personality and Temperament** 123
 - Personality 123
 - Temperament 125
 - Crack the Case—The Workshops* 127
- **Chapter Review** 128
- **Key Terms** 128
- **Professional Development/Portfolio Activities** 129
- **Internet Activities** 129

CHAPTER

5 Sociocultural Diversity 130

- **Culture and Ethnicity** 132
 - Culture 132
 - Socioeconomic Status 133
 - Ethnicity 137
 - Bilingual Education 141
- **Multicultural Education** 144
 - Exploring Multicultural Education 144
 - The Multicultural Classroom 145
- **Gender** 148
 - What Is Gender? 148
 - Views on Gender Development 148
 - Gender Stereotyping, Similarities, and Differences 151
 - Gender-Role Classification 155
 - Self-Assessment 5.1—What Gender-Role Orientation Will I Present to My Students?* 156
 - Gender in Context 157
 - Eliminating Gender Bias 157
 - Sexual Orientation 159
 - Crack the Case—The Boys* 161
- **Chapter Review** 162
- **Key Terms** 162
- **Professional Development/Portfolio Activities** 163
- **Internet Activities** 163

CHAPTER

6 Learners Who Are Exceptional 164

- **Learners Who Are Exceptional and Strategies for Teaching Them** 166
 - Who Are Students with Exceptionalities? 166
 - Learning Disabilities 167



Attention Deficit Hyperactivity Disorder 171
 Emotional and Behavioural Disorders 174
 Speech and Language Disorders 176
 Developmental Disabilities/Intellectual
 Disabilities 179
 Sensory Impairments and Physical
 Exceptionalities 180
 Students Who Are Gifted 186

- **Educational Issues Involving Students with Exceptionalities** 189
 - Historical Background 189
 - Placements and Services 191
 - Parents as Educational Partners 194
 - Technology 196
 - Crack the Case—Now What?* 199
- **Chapter Review** 200
- **Key Terms** 201
- **Professional Development/Portfolio Activities** 201
- **Internet Activities** 201

CHAPTER

7 Behavioural Approaches, Social Cognitive Approaches, and Teaching 202

- **What Is Learning?** 204
 - What Learning Is and Is Not 204
 - Approaches to Learning 204
- **Behavioural Approaches to Learning** 206
 - Classical Conditioning 206
 - Operant Conditioning 208
- **Applied Behaviour Analysis in Education** 212
 - What Is Applied Behaviour Analysis? 212
 - Increasing Desirable Behaviours 212
 - Using Prompts and Shaping 214
 - Decreasing Undesirable Behaviours 215
 - Evaluating Operant Conditioning and Applied Behaviour Analysis 218
- **Social Cognitive Approaches to Learning** 220
 - Bandura's Social Cognitive Theory 220
 - Observational Learning 221

Cognitive Behaviour Approaches and
 Self-Regulation 223
*Self-Assessment 7.1—Models and Mentors in My Life
 and My Students' Lives* 227
 Evaluating the Social Cognitive Approaches 231
Crack the Case—Consequences 233

- **Chapter Review** 234
- **Key Terms** 234
- **Professional Development/Portfolio Activities** 235
- **Internet Activities** 235

CHAPTER

8 The Cognitive Information-Processing Approach and Teaching 236

- **The Cognitive Information-Processing Approach** 238
 - Exploring the Information-Processing Approach 238
 - Characteristics of the Information-Processing Approach 238
- **Memory** 239
 - What Is Memory? 239
 - Encoding 240
 - Storage 243
 - Retrieval and Forgetting 249
 - Self-Assessment 8.1—How Effective Are My Memory and Study Strategies?* 253
- **Thinking** 253
 - What Is Thinking? 253
 - Forming Concepts 253
 - Reasoning and Thinking Critically 257
 - Solving Problems 258
 - Self-Assessment 8.2—How Effective Are My Thinking Strategies?* 264
- **Teaching for Transfer** 264
 - What Is Transfer? 264
 - Types of Transfer 265
- **Metacognition** 265
 - What Is Metacognition? 265
 - Developmental Changes in Metacognition 267
 - The Good Information-Processing Model 267

Exploring Strategy Instruction 267

Crack the Case—The Test 271

- **Chapter Review** 272
- **Key Terms** 272
- **Professional Development/Portfolio Activities** 273
- **Internet Activities** 273

CHAPTER

9

Social Constructivist Approaches, Domain-Specific Approaches, and Teaching 274

- **Social Constructivist Approaches to Learning** 276
 - Constructivist Variations 276
 - Situated Cognition 277
- **Teachers and Peers as Joint Contributors to Students' Learning** 277
 - Scaffolding 277
 - Cognitive Apprenticeship 277
 - Tutoring 278
 - Cooperative Learning 280
 - Structuring Cooperative Group Work 283
- **Domain-Specific Constructivist Approaches** 287
 - Reading 287
 - Writing 292
 - Self-Assessment 9.1—How Do I Plan to Incorporate Reading and Writing into My Classroom?* 293
 - Mathematics 297
 - Science 300
- **Evaluating the Constructivist Approaches** 303
 - Crack the Case—The Statistics Test* 305
- **Chapter Review** 306
- **Key Terms** 307
- **Professional Development/Portfolio Activities** 307
- **Internet Activities** 307

CHAPTER

10

Planning, Instruction, and Technology 308

- **Planning** 310
 - Instructional Planning 310
 - Time Frames and Planning 310
- **Teacher-Centred Lesson Planning and Instruction** 312
 - Teacher-Centred Lesson Planning 312
 - Direct Instruction and Teacher-Centred Instructional Strategies 314
 - Evaluating Teacher-Centred Instruction 323
- **Learner-Centred Lesson Planning and Instruction** 324
 - Learner-Centred Principles 325
 - Three Learner-Centred Instructional Strategies 325
 - Integrating the Curriculum 327
 - Evaluating Learner-Centred Instruction 329
- **Technology and Education** 329
 - The Technology Factor 329
 - The Technology Landscape 331
 - Technology and Sociocultural Diversity 337
 - The Realities of Information and Communication Technology and Education 338
 - Self-Assessment 10.1—Evaluating My Technology Skills and Attitudes* 339
 - Crack the Case—The Big Debate* 341
- **Chapter Review** 342
- **Key Terms** 342
- **Professional Development/Portfolio Activities** 343
- **Internet Activities** 343

CHAPTER

11

Motivating Students to Learn 344

- **Exploring Motivation** 346
 - What Is Motivation? 346
 - Perspectives on Motivation 346
- **Achievement Motivation** 349
 - Extrinsic and Intrinsic Motivation 350
 - Attribution 353
 - Achievement Orientation 355



- Self-Efficacy 356
- Self-Regulatory Learning: Goal-Setting, Planning, and Self-Monitoring 358
- Anxiety 362
- Instructional Strategies and Students' Motivation 362

- **Motivation, Relationships, and Sociocultural Contexts** 364
 - Social Motives 364
 - Social Relationships 366
 - Sociocultural Contexts 369
- **Motivating Students and Keeping Them Motivated** 371
 - Overall Strategies 371
 - Self-Assessment 11.1—Evaluating My Motivation* 374
 - Motivating Hard-to-Reach, Low-Achieving Students 374
 - Crack the Case—The Reading Incentive Program* 379
- **Chapter Review** 380
- **Key Terms** 380
- **Professional Development/Portfolio Activities** 381
- **Internet Activities** 381

CHAPTER

12 Managing the Classroom 382

- **Why Classrooms Need to Be Managed Effectively** 384
 - Management Issues in Elementary- and Secondary-School Classrooms 384
 - The Complex Classroom 385
 - Getting Off to the Right Start 386
 - An Emphasis on Instruction and a Positive Classroom Environment 387
 - Management Goals and Strategies 387
- **Creating a Positive Environment for Learning** 389
 - General Strategies 389
 - Developing a Positive Relationship with Students 391
 - Establishing and Maintaining Rules and Routines 392
 - Having Students Assume Responsibility 393
- **Being a Good Communicator** 394
 - Developing Good Speaking and Listening Skills 394
 - Supporting Effective Verbal Communication 396
 - Self-Assessment 12.1—Reflecting on My Active Listening Skills* 397

- “You” and “I” Messages 397
- Communicating Nonverbally 398
- Being Assertive 399

- **Designing the Physical Environment of the Classroom** 400
 - Basic Design Considerations for Organizing Classroom Space 400
- **Addressing Problem Behaviours** 403
 - Management Strategies 405
 - Handling Aggression and Bullying 408
 - Crack the Case—The Chatty Student* 413
- **Chapter Review** 414
- **Key Terms** 414
- **Professional Development/Portfolio Activities** 415
- **Internet Activities** 415

CHAPTER

13 Standardized Tests and Teaching 416

- **The Nature of Standardized Tests** 418
 - What Is a Standardized Test? 418
 - The Purposes of Standardized Tests 418
 - Criteria for Evaluating Standardized Tests 419
- **Standardized Aptitude, Achievement, and Psychoeducational Tests** 421
 - Comparing Aptitude, Achievement, and Psychoeducational Tests 421
 - Psychoeducational Assessment 423
 - Types of Standardized Achievement Tests 423
 - Student Testing across the Provinces and Territories 425
- **The Teacher's Role** 429
 - Preparing Students to Take Standardized Tests 429
 - Administering Standardized Tests in the Classroom 431
 - Understanding and Interpreting Test Results 432
 - Self-Assessment 13.1—Evaluating My Knowledge of and Skill in Computing: Measures of Central Tendency and Variability* 435
 - Communicating Test Results to Parents 437

- **Issues in Standardized Testing** 440
 - Standardized Tests and Alternative Assessments 440
 - Diversity and Standardized Testing 441
 - In Search of a Balanced Approach 441
 - Crack the Case—Standardized Tests* 443
- **Chapter Review** 444
- **Key Terms** 444
- **Professional Development/Portfolio Activities** 445
- **Internet Activities** 445

CHAPTER

14 Assessing Students' Learning 446

- **The Classroom as an Assessment Context** 448
 - Assessment as an Integral Part of Teaching 448
 - Establishing High-Quality Assessments 450
 - Current Trends 453
- **Traditional Tests** 454
 - Selected-Response Items 454
 - Constructed-Response Items 459
- **Alternative Assessments** 461
 - Authentic Assessment 462
 - Performance-based Assessment 463
 - Portfolio Assessment 466

Self-Assessment 14.1—Planning My Assessment Philosophy 469

- **Grading and Reporting Performance** 470
 - The Purposes of Grading 470
 - The Components of a Grading System 471
 - Reporting Students' Progress and Grades to Parents 473
- **Computers and Assessment** 474
 - Constructing, Printing, Administering, and Scoring Tests 474
 - Electronic Portfolios 475
 - Record Keeping 475
 - Crack the Case—The Project* 477
- **Chapter Review** 478
- **Key Terms** 478
- **Professional Development/Portfolio Activities** 479
- **Internet Activities** 479

Glossary 481

References 491

Credits 516

Name Index 519

Subject Index 527

