Contents

Preface xi

Part one

Background 2

Chapter 1

Applying Psychology to teaching

page 4

Questions about teaching 5
Uses of this book 10
Features of this book 12
The nature and values of science 19
Studying behavior: complicating factors 22
The teacher-practitioner and the teacher-theorist 30

The contents of this book 33

Chapter 2

What teaching is like

page 44

Some facts and figures 46
What you will be expected to do 48
Advantages and disadvantages of teaching 52
Some explanations of features of public education 60
A sampling of criticisms of public education 65
How valid are the criticisms? How realistic are the prescriptions? 71
Criticism as an occupational hazard 79
What must you accept? What might you change? 83

Part two

Development 94

Chapter 3

Development: Principles and theories

page 96

Erikson: Stages of psychosocial development 97

Suggestions for teaching: Applying Erikson's theory in the

classroom 107

Havighurst: Developmental tasks 108

Piaget: Stages of cognitive development 112

Suggestions for teaching: Applying Piaget's theory in the

classroom 125

Bruner: Systems of representation 128

Suggestions for teaching: Applying Bruner's theory in the

classroom 132

Stimulus-response theory 133

Suggestions for teaching: Applying stimulus-response theory in the

classroom 138

Maslow: Third force psychology 139

Suggestions for teaching: Third force psychology in the

classroom 141

Chapter 4

Age-level characteristics

page 168

Preschool and kindergarten 170

Primary and elementary grades 181

Secondary grades 197

Part three

Learning 220

Chapter 5

The S-R view of learning

page 226

Basic assumptions of the S-R view 227

Experimental evidence underlying S-R theory 229

Educational applications of S-R theory 237

Criticisms of S-R theory 247

Suggestions for teaching: Applying the S-R view in the classroom 257

Contents vii

Chapter 6

Basic assumptions 289

The

Experimental demonstrations of cognitive-discovery principles 295 Educational applications of the cognitive-discovery view 297

cognitive-discovery view of learning

Criticisms of the discovery approach 301

page 286

Suggestions for teaching: Applying the discovery approach in the

classroom 306

Chapter 7

Basic assumptions 333

The humanistic view of learning

An experiment in humanistic education 339
Techniques of humanistic education 341
Criticisms of humanistic education 346

page 332

Suggestions for teaching: Applying the humanistic view in the

classroom 353

Part four

Skills, memory, and transfer 388

Chapter 8

Helping students Gag acquire skills and Tax

page 392

information

Using instructional objectives 393

Suggestions for teaching: Using instructional objectives 398

Gagne's eight conditions of learning 402

Taxonomy of educational objectives: Cognitive domain 406

Teaching skills 409

Suggestions for teaching: Providing demonstrations and guided

practice 414

Suggestions for teaching: Implications of the learning curve 422

Helping students memorize and remember 424

Suggestions for teaching: Helping students memorize and

remember 434

Chapter 9

The nature and significance of transfer 453

Aims of education 456

Research-substantiated principles of transfer 464

Specific and general transfer 465 Encouraging positive attitudes 469

Implications of research on transfer 472

Suggestions for teaching: Ways to encourage transfer 473

Encouraging creativity 490

Suggestions for teaching: Encouraging creative self-expression 492

Teaching for transfer

page 452

Part five

Motivation 510

Chapter 10

Motivation: Theory and applications

page 512

View of motivation 513

Maslow's theory of growth motivation 516 Interrelationship of safety and growth 520 Implications of the views of motivation 522

Suggestions for teaching: Arousing and sustaining interest

in learning 525

viii

Chapter 11

Teaching the disadvantaged

page 554

Inequality of educational opportunity 555

Contrasting favored and disadvantaged children 561

Potential dangers of labeling 564

Factors that may influence disadvantaged students 566

Suggestions for teaching: Arranging educational experiences for

disadvantaged pupils 569

Programmed techniques for the disadvantaged 570

Discovery and humanistic approaches for the disadvantaged 579 Suggestions for teaching: Techniques for teaching disadvantaged

pupils 588

Part six

Evaluation 606

Chapter 12

Evaluating ability and achievement

page 612

Reasons for the grade point average 613

A critique of the "grading game" 616

Potential values of grades 627

Characteristics of an ideal grading system 628

Standardized tests 630

The nature and measurement of intelligence 645 Using test scores to individualize teaching 653

Chapter 13

Evaluating classroom learning

page 664

Reducing subjectivity 665

The values of stating objectives 672

Goals to strive for in improving evaluation 673

Suggestions for teaching: Ways to improve evaluation 674 Converting scores into grades: Traditional approach 688

Learning for Mastery 696

Suggestions for teaching: Using a mastery learning approach 698

Report cards 714

Suggestions for teaching: Making out report cards 715

Part seven

ix

Individual differences 728

Chapter 14

Teaching exceptional students

page 730

Disadvantages and advantages of labeling 731

The Education for All Handicapped Children Act 734

Guidelines for teaching exceptional children 735

Teaching slow learners 736

Suggestions for teaching: Instructing slow learners 741

Teaching rapid learners 745

Suggestions for teaching: Instructing rapid learners 747

Pupils with learning disabilities 752 Teaching hyperactive pupils 755

Suggestions for teaching: Instructing hyperactive children 757

Identifying and teaching handicapped students 760 Helping students deal with behavior disorders 769

Chapter 15

Maintaining classroom control

page 786

Impact of different types of leadership 788

Classroom control 792

Causes of misbehavior 794

Analyzing your techniques of classroom management 795

Suggestions for teaching: Maintaining classroom control 800

Influence techniques 808

I-messages and the no-lose method 817

Epilogue

Teaching for your own self-actualization page 826 Teaching and need satisfaction 827
Suggestions for dealing with frustrations 830
Increasing the possibility of self-actualization 833
Improving your skills as a teacher 834

Bibliography 843 Index 861