

CONTENTS

Preface.....	xiii	Summary	27
Features.....	xiv	<i>Case study: Questions</i>	28
Special features	xvi	<i>Interpreting children's artefacts and reflections</i>	28
About the authors	xviii	<i>Key concepts</i>	28
Australian Professional Standards for Teachers.....	xx	<i>References</i>	29
PART 1			
Foundations in child development	1		
CHAPTER 1			
Making a difference in the lives of children and adolescents	2	Using research to understand children and adolescents	32
<i>Case study: Rosanne</i>	2	<i>Case study: A practitioner's research</i>	32
The field of child development.....	4	Principles of research	34
Developmental domains	4	1. Focusing on what we want to know.....	34
Effects of context on development.....	5	2. Reviewing existing knowledge	34
Basic questions in development.....	6	3. Ethical protection of children	34
Nature and nurture	6	4. The scientific method	35
Universality and diversity.....	8	5. Selecting research participants.....	35
Qualitative and quantitative change	8	6. Accepting our limits.....	36
Applying basic lessons from child development.....	10	Analysing developmental research	36
Theories of child development.....	11	Data collection techniques	36
Biological theories.....	11	Research designs	40
Behaviourism and social learning theories	12	Becoming a thoughtful consumer of research.....	43
Psychodynamic theories.....	12	Gathering data as an educator	46
Cognitive-developmental theories	13	Increasing the accuracy of conclusions about children	46
Information processing theories	13	Observing children.....	47
Sociocultural theories.....	14	Listening to children	50
Developmental systems theories.....	15	Interpreting assessments and artefacts	51
A strategic approach to theory.....	16	Conducting action research.....	52
Developmental periods	18	Ethical guidelines specifically for practitioner-researchers	53
Infancy (birth to 2 years)	18	<i>Summary</i>	54
Early childhood (2–6 years)	19	<i>Case study: Questions</i>	55
Middle childhood (6–10 years)	19	<i>Interpreting children's artefacts and reflections</i>	55
Early adolescence (10–14 years)	20	<i>Key concepts</i>	55
Late adolescence (14–18 years)	21	<i>References</i>	55
From theory to practice	21		
Applying knowledge of child development in centres, classrooms and the community.....	22		
Strengthening the commitment	26		

Family structures.....	63	Prenatal development	121
Mothers and fathers	64	Phases of prenatal growth.....	121
Divorcing parents	65	Medical care.....	125
Single parents.....	66	Supporting parents, protecting babies	130
Parents and step-parents.....	67	Birth of the baby	132
Extended family	67	Preparation for birth.....	132
Adoptive parents	68	The birth process	133
Foster care	68	Medical interventions	135
Other heads of family.....	69	Enhancing parents' sensitivity to newborn	
Accommodating diverse family structures	69	infants.....	138
Family processes	70	Summary	141
Families' influences on children.....	71	<i>Case study: Questions</i>	141
Children's influences on families	75	<i>Interpreting children's artefacts and reflections</i>	142
Risk factors in families	76	<i>Key concepts</i>	142
Forming partnerships with families	77	<i>References</i>	143
Children in a diverse society	83	CHAPTER 5	
Children's experiences in diverse groups.....	83	Physical development.....	147
Immigration and social change	85	<i>Case study: Christopher, the skinny kid</i>	147
Challenges faced by children from minority			
backgrounds.....	86	Principles of physical development.....	148
Creating supportive environments for children			
from diverse groups	88	The brain and its development.....	151
Community resources	92	Structures and functions	152
Working with children from low-income			
families.....	95	Developmental changes in the brain	154
<i>Summary</i>	96	Irregularities in brain development	157
<i>Case study: Questions</i>	97	Applications of research on brain	
<i>Key concepts</i>	98	development.....	158
<i>References</i>	98	Physical development during childhood.....	160

PART 2

Biological development 109

CHAPTER 4	
Biological beginnings.....	110
<i>Case study: Birthing the baby</i>	110
Genetic foundations of child development	111
Structure of genes	111
Operation of genes	112
Formation of reproductive cells	113
Genetic basis of individual traits	115
The awakening of genes.....	119
The melding of heredity and environment.....	120
Acknowledging nature and nurture	
in children's lives	120

Physical wellbeing.....	168
Eating habits	168
Physical activity.....	171
Rest and sleep.....	174
Health-compromising behaviours.....	175
Special physical needs	180
Chronic illness	180
Serious injuries and health hazards	181
Physical disabilities	183
Promoting physical wellbeing in all children	183
<i>Summary</i>	184
<i>Case study: Questions</i>	185
<i>Key concepts</i>	185
<i>References</i>	186

PART 3**Cognitive development 193****CHAPTER 6****Cognitive development: Piaget and Vygotsky 194*****Case study: Excerpts from John's life 194*****Piaget's theory of cognitive development 196**

- Key ideas in Piaget's theory 197
- Piaget's stages of cognitive development 200
- Current perspectives related to Piaget's theory 205
- Key ideas in neo-Piagetian theories 207
- Applying the ideas of Piaget and his followers 209

Vygotsky's theory of cognitive development 212

- Key ideas in Vygotsky's theory 213
- Current perspectives related to Vygotsky's theory 216
- Applying the ideas of Vygotsky and his followers 220

Comparing Piagetian and Vygotskian perspectives 222

- Common themes 222
- Theoretical differences 224

Summary 226***Case study: Questions 227******Interpreting children's artefacts and reflections 228******Key concepts 228******References 228*****CHAPTER 7****Cognitive development: cognitive processes 234*****Case study: Sam 234*****Basic cognitive processes 236**

- Key ideas in information processing theory 237
- Sensation and perception 239
- Attention 241
- Working memory and the central executive 243
- Long-term memory 244
- Thinking and reasoning 246
- Facilitating basic cognitive processes 247

Metacognition and cognitive strategies 251

- Learning strategies 251
- Cognitive load 252
- Problem-solving strategies 253
- Metacognitive awareness 254
- Self-regulated learning 256
- Epistemological beliefs 257
- Cultural diversity in metacognition 258

Promoting metacognitive and strategic development 259

Adding a sociocultural element to information

- processing theory 261**
- Intersubjectivity 261
- Social construction of memory 262
- Collaborative use of cognitive strategies 263
- Enhancing information processing through social interaction 263

Children's construction of theories 264

- Children's theories of the physical world 265
- Facilitating children's theory construction 266

Comparing and critiquing contemporary approaches to cognitive development 267**Individual differences in information processing 269**

- Learning disabilities 269
- Attention-deficit hyperactivity disorder 269
- Working with children who have information-processing difficulties 270

Summary 271***Case study: Questions 272******Interpreting children's artefacts and reflections 273******Key concepts 273******References 273*****CHAPTER 8****Intelligence 284*****Case study: Terry Tao 284*****Defining intelligence 286**

- Spearman's 'g' 287
- Cattell–Horn–Carroll theory of cognitive abilities 288
- Gardner's multiple intelligences 289
- Sternberg's theory of successful intelligence 291
- Distributed intelligence 292

Measuring intelligence 294

- Tests of general intelligence 294
- Specific ability tests 296
- Dynamic assessment 297
- Assessing the abilities of infants and young children 298

Effects of heredity and environment on intelligence 299

- Evidence for hereditary influences 300
- Evidence for environmental influences 301
- How nature and nurture interact in their influence on intelligence 304

Developmental trends in IQ scores	306	Key concepts	369
Group differences in intelligence	307	References	369
Gender differences	308		
Socioeconomic differences	309		
Ethnic differences	310		
Suggestions for practice	313		
Giftedness and intellectual disabilities.....	315		
Children who are gifted	315		
Children with intellectual disabilities	318		
Summary	320		
Case study: Questions	321		
Key concepts	321		
References	322		
CHAPTER 9			
Language development.....	331		
Case study: Elsey.....	331		
Theoretical perspectives on language development.....	333		
Cognitive theories	335		
Sociocultural theory	337		
Functionalism	338		
Critiquing theories of language development.....	339		
Trends in language development.....	341		
Semantic development.....	341		
Syntactic development.....	345		
Development of listening skills	348		
Development of speaking skills	351		
Development of pragmatics	355		
Development of metalinguistic awareness.....	359		
Development of a second language.....	361		
The timing of second-language learning.....	361		
Bilingualism	362		
Teaching a second language.....	362		
Diversity in language development.....	364		
Gender differences	364		
Socioeconomic differences	364		
Ethnic differences	364		
Exceptionalities in speech and language development.....	365		
Speech disorders	365		
Language disorders and cognition	366		
Sensory impairments and language development.....	366		
Summary	367		
Case study: Questions	368		
Interpreting children's artefacts and reflections	369		
CHAPTER 10			
Development in academic domains	379		
Case study: Harry	379		
Reading development.....	382		
Emergent literacy.....	382		
Letters and phonological awareness	384		
Word recognition	387		
Reading comprehension.....	389		
Metacognition in reading.....	390		
Diversity in reading development.....	391		
Promoting reading development.....	395		
Writing development	397		
Handwriting.....	397		
Keyboard skills	398		
Spelling.....	398		
Syntax and grammar.....	399		
Composition skills	399		
Metacognition in writing	400		
Diversity in writing development.....	401		
Promoting writing development	402		
Mathematics development	403		
Number sense and counting.....	403		
Mathematical concepts and principles.....	404		
Basic arithmetical operations.....	404		
More-advanced problem-solving procedures.....	408		
Metacognition in mathematics	408		
Diversity in mathematics development	409		
Promoting development in mathematics	412		
Science development	413		
Children's theories about the biological and physical worlds.....	413		
Scientific reasoning skills	414		
Metacognition in science	415		
Diversity in science development	417		
Promoting development in science	417		
Development in other academic domains	420		
History	420		
Geography	421		
Art	423		
Music	424		
Summary	426		
Case study: Questions	428		
Key concepts	428		
References	428		

PART 4**Social and emotional development 443****CHAPTER 11**

Emotional development 444

Case study: Sally 444**Erikson's theory of psychosocial development 445**Lessons learned from life's challenges 446
Contemporary perspectives on Erikson's theory 448**Attachment 450**Developmental course of children's attachments 450
Individual differences in children's attachments 452
Origins of attachment security 453
Multiple attachments 456
Attachment security and later development 457
Implications of attachment research 458**Emotion 462**Developmental changes in emotions 462
Group differences in emotions 467
Promoting children's emotional development 469**Temperament and personality 471**Elements of temperament and personality 472
Goodness of fit 474
Helping children be themselves 475**Supporting children and adolescents with emotional and behavioural problems 479**Common emotional and behavioural disorders 479
Supporting children and adolescents with emotional and behavioural problems 481
Summary 483
Case study: Questions 483
Key concepts 484
References 484**CHAPTER 12****Development of self and social understandings 494***Case study: Jane* 494**Sense of self 495**Effects of children's sense of self 495
Factors influencing sense of self 497
General trends in children's sense of self 498
Changes in the self over childhood and adolescence 500
Diversity in sense of self 503

Enhancing children's sense of self 510

Social cognition 514Understanding what others think 514
Factors promoting social understandings 517
Diversity in social cognition 520
Fostering the development of social cognition 522*Summary* 524*Case study: Questions* 525*Interpreting children's artefacts and reflections* 525*Key concepts* 525*References* 525**CHAPTER 13****Development of motivation and self-regulation 534***Case study: Albert's solution* 534**Extrinsic and intrinsic motivation 535**Factors affecting extrinsic motivation 536
Factors affecting intrinsic motivation 537**Development of goals 541**Achievement goals 542
Social goals 543
Future aspirations 544
Coordinating multiple goals 544**Development of attributions 545**

Origins of attributions 547

Diversity in motivation 548Gender differences 549
Cultural and ethnic differences 549**Motivating children and adolescents 552****Self-regulation 558**Developmental trends in self-regulation 558
Conditions that foster self-regulation 560
Diversity in self-regulation 561
Promoting self-regulation 561*Summary* 564*Case study: Questions* 565*Interpreting children's artefacts and reflections* 566*Key concepts* 566*References* 566**CHAPTER 14****Development of morality and interpersonal behaviours 577***Case study: Let's talk* 577**Moral reasoning and behaviour 579**

Kohlberg's theory of moral development 579

Piaget: rules, intentions and consequences	582
Developmental trends in morality.....	582
Factors affecting moral development	585
Diversity in moral development.....	588
Promoting moral development	589
Interpersonal behaviours.....	591
Interpersonal behaviours at different ages.....	592
Development of prosocial behaviour and aggression.....	596
Diversity in interpersonal behaviours.....	601
Fostering effective interpersonal skills	604
Creating a safe school environment	607
Summary	610
Case study: Questions	611
Key concepts.....	612
References.....	612
CHAPTER 15	
Peers, schools and society	622
<i>Case study: Sharing at the zoo</i>	<i>622</i>
Peers.....	624
Functions of peer relationships	624
Peer acceptance	625
Friendships.....	627
Social groups.....	630
Romance and sexuality.....	632
Preschools and schools.....	638
The school as a community.....	639
Socialisation in schools and centres.....	640
Transitions to new educational settings	644
Society.....	646
Services for children and adolescents	646
Electronic media	650
Issues relating to use of electronic media	650
Implications of electronic media use	653
Summary	655
Case study: Questions	656
<i>Interpreting children's artefacts and reflections</i>	<i>657</i>
Key concepts.....	658
References.....	658
Glossary.....	668
Index	674