

About the authors	x
Preface	xi
PART I	
A framework for developmental psychology	1
1 A brief history of developmental psychology	2
The developmental principle	4
The evolution of development	6
The emergence of developmental psychology	8
Fundamental questions in developmental psychology	12
Conclusion and summary	16
Further reading	17
2 Developmental psychology in the 20th century	18
Learning or maturation: The rise of opposing schools	19
Jean Piaget (1896–1980)	22
Lev Semeonovich Vygotsky (1896–1934)	26
John Bowlby (1907–1990)	30
Conclusion and summary	34
Further reading	35
3 Observing and modelling developmental change	36
The epigenetic landscape	38
Stage theories of development	40
The dynamic systems approach	42
The connectionist approach	45

Information-processing approaches	49
Carrying out research in developmental psychology	51
Methods of data collection	55
Conclusion and summary	57
Further reading	57
PART 2	
Early development	59
4 Development from conception to birth	60
Stages in prenatal development	61
Behaviour in the foetus	66
Evolution and development of the brain	71
Sitting, standing, and walking	76
The sensory capacities of the neonate	80
Childbirth	87
Conclusion and summary	89
Further reading	91
5 Cognitive development in infancy	92
Piaget's theory of infant cognition	93
Piaget's account of the development of the object concept	99
Infants' perception of objects: An alternative to Piaget	103
Memory in infancy	111
Reaching and grasping	113
Conclusion and summary	118
Further reading	119
6 Early social development	120
Recognising oneself	121
Recognising other people	122

Smiling and social recognition	125
Imitating other people	126
Play	130
The development of attachment	131
Responses to emotions	138
Differences in interaction with boys and girls	139
Conclusion and summary	140
Further reading	141
7 The beginnings of language development	142
The perception of speech sounds	143
The development of babbling	147
Learning to say words	150
The social context of early language development	154
Conclusion and summary	160
Further reading	161
PART 3	
The preschool years	163
8 Language development in the preschool years	164
Combining words	165
Morphological development	166
Inside-out theories	167
Outside-in theories	170
The role of language input	173
Experimental studies of early grammatical understanding	176
The language abilities of chimpanzees	177
Vocabulary development in the school years	182
Conclusion and summary	183
Further reading	183
9 Cognitive development in the preschool years	184
Piaget's theory of preoperational reasoning	185
Criticisms of Piaget's tests of preoperational thinking	189
Problem solving	194
Reasoning by analogy	198
Appearance and reality	200
Children's drawing	201
Conclusion and summary	208
Further reading	209

10 Social development in the preschool years	210
The continuing development of self-recognition	211
The development of pretend play	212
Fantasy and imagination	215
Gender differences in play	218
The development of gender identity	219
Social cognition and theory of mind	222
Prosocial behaviour	227
The formation of friendships	228
Conclusion and summary	228
Further reading	229

PART 4

The school years 231

11 Cognitive development in middle childhood	232
Social and biological markers of middle childhood	233
Piaget's theory of concrete operational reasoning	234
Criticisms of Piaget's account of concrete operational reasoning	238
Developmental changes in problem solving	243
Conclusion and summary	245
Further reading	247
12 Learning to read and spell	248
Orthographic regularity	249
Theories of learning to read	250
Learning to read alphabetic scripts	254
Learning to read non-alphabetic scripts	255
Predictors of reading success	257
Learning to spell	259
Learning to read and write braille	262
Difficulties with learning to read and spell	265
Conclusion and summary	269
Further reading	269
13 Learning to do mathematics	270
Early knowledge of number	271
Learning to count	274
Adding and subtracting objects	277
Adding and subtracting numbers	279
Cross-cultural differences in mathematical ability	284

Conclusion and summary	286
Further reading	287
14 Social development in the school years	288
Interactions with other children	289
Friendships	291
Bullying	292
Piagetian and neo-Piagetian accounts of moral reasoning	293
Alternative accounts of moral development	296
Emotional development	299
Conclusion and summary	301
Further reading	302
15 Adolescence	304
Social and biological markers of adolescence	305
Piaget's theory of formal operational reasoning	307

Criticisms of Piaget's theory	309
Culture and context specificity in adult thinking	310
Moral reasoning	313
Relationships	315
Gender differences in adolescent friendships	320
Conflict and aggression in adolescence	322
Conclusion and summary	323
Further reading	325
References	327
Glossary	349
Author index	353
Subject index	359