Contents

Preface xi Preface to second edition xiii

1 The origins of language 1

The divine source; The natural-sound source; The oral-gesture source; Glossogenetics; Physiological adaptation; Interactions and transactions; Study questions; Discussion topics/projects; Further reading

2 The development of writing 9

Pictograms and ideograms; Logograms; Rebus writing; Syllabic writing; Alphabetic writing; Written English; Study questions; Discussion topics/projects; Further reading

3 The properties of language 19

Communicative versus informative; Unique properties; Displacement; Arbitrariness; Productivity; Cultural transmission; Discreteness; Duality; Other properties; Study questions; Discussion topics/projects; Further reading

4 Animals and human language 30

Chimpanzees and language; Washoe; Sarah and Lana; Nim Chimpsky; Hans, Buzz and Doris; The controversy; Sherman, Austin and Kanzi; The barest rudiments; Study questions; Discussion topics/projects; Further reading

5 The sounds of language 40

Phonetics; Articulation: voiced and voiceless; Place of articulation; Charting consonant sounds; Manner of articulation; Vowels; Study questions; Discussion topics/projects; Further reading

6 The sound patterns of language 53

Phonology; Phonemes; Phones and allophones; Minimal pairs and sets; Phonotactics; Syllables and clusters; Co-articulation effects; Assimilation; Elision; Study questions; Discussion topics/projects; Further reading

7 Words and word-formation processes 63

Word-formation processes; Coinage; Borrowing; Compounding; Blending; Clipping; Backformation; Conversion; Acronyms; Derivation; Prefixes and suffixes; Infixes; Multiple processes; Study questions; Discussion topics/projects; Further reading

8 Morphology 74

Morphology; Morphemes; Free and bound morphemes; Free morphemes; Bound morphemes; Derivational versus inflectional; Morphological description; Problems in morphological description; Morphs and allomorphs; Other languages; Study questions; Discussion topics/projects; Further reading

9 Phrases and sentences: grammar 86

Grammar; Types of grammar; The parts of speech; Traditional grammar; Traditional categories; Traditional analysis; The prescriptive approach; Captain Kirk's infinitive; The descriptive approach; Structural analysis; Immediate constituent analysis; Labeled and bracketed sentences; A Gaelic sentence; Study questions; Discussion topics/projects; Further reading

10 Syntax 100

Generative grammar; Some properties of the grammar; Deep and surface structure; Structural ambiguity; Different approaches; Symbols used in syntactic description; Labeled tree diagrams; Phrase structure rules; Back to recursion; Transformational rules; Study questions; Discussion topics/projects; Further reading

11 Semantics 114

Conceptual versus associative meaning; Semantic features; Semantic roles; Lexical relations; Synonymy; Antonymy; Hyponymy; Prototypes; Homophony, homonymy and polysemy; Metonymy; Collocation; Study questions; Discussion topics/projects; Further reading

12 Pragmatics 127

Invisible meaning; Context; Deixis; Reference; Anaphora; Presupposition; Speech acts; Politeness; Study questions; Discussion topics/projects; Further reading

13 Discourse analysis 139

Interpreting discourse; Cohesion; Coherence; Speech events; Conversational interaction; The Co-operative principle; Background knowledge; Study questions; Discussion topics/projects; Further reading

14 Language and machines 151

Speech synthesis and recognition; Artificial intelligence; Parsers; Understander systems; ELIZA, SHRDLU, PRAGMA; Study questions; Discussion topics/projects; Further reading

15 Language and the brain 162

Parts of the brain; Broca's area; Wernicke's area; The motor cortex; The arcuate fasciculus; The localization view; Other views; Tongue tips and slips; Aphasia; Broca's aphasia; Wernicke's aphasia; Conduction aphasia; Dichotic listening; The critical period; Genie; Study questions; Discussion topics/projects; Further reading

16 First language acquisition 175

Basic requirements; The acquisition schedule; Some controversies; Caretaker speech; Pre-language stages; The one-word or holophrastic stage; The two-word stage; Telegraphic speech; The acquisition process; Morphology; Syntax; Questions; Negatives; Semantics; Study questions; Discussion topics/projects; Further reading

17 Second language acquisition/learning 190

Acquisition barriers; Acquisition and learning; The affective filter; Focus on method; Grammar-translation method; Audiolingual method; Communicative approaches; Focus on the learner; Interlanguage; Motivation; Input and output; Communicative competence; Applied linguistics; Study questions; Discussion topics/projects; Further reading

18 Sign language 202

Alternate and primary sign languages; Oralism; Signed English; Origins of ASL; The structure of signs; The meaning of signs; Writing in ASL; ASL as a linguistic system; Study questions; Discussion topics/projects; Further reading

19 Language history and change 213

Family trees; Family relationships; Cognates; Comparative reconstruction; Language change; Old English; Middle English; Sound changes; Syntactic changes; Lexical changes; The process of change; Study questions; Discussion topics/projects; Further reading

20 Language varieties 226

The Standard Language; Accent and dialect; Regional dialects; Isoglosses and dialect boundaries; The dialect continuum; Bilingualism; Language planning; Pidgins and Creoles; The Post-Creole continuum; Study questions; Discussion topics/projects; Further reading

21 Language, society and culture 239

Sociolinguistics; Social dialects; Social class and education; Age and gender; Ethnic background; Idiolect; Style, register and jargon; Diglossia; Language and culture; Linguistic determinism; The Sapir-Whorf hypothesis; Language universals; Study questions; Discussion topics/projects; Further reading

Appendix Suggested answers to study questions 254

References 261

Index 286