

Table of Contents

Unit	Title	Page
	Key to Phonetic Symbols	VI
1.	Living and Nonliving Matter and the Chemicals of Life	1
2.	What Is Life?	13
3.	The Five Kingdoms and Classifying Organisms	25
4.	Plants	39
5.	Animals: Invertebrates	51
6.	Animals: Vertebrates	66
7.	Ecology	80
8.	Cellular Respiration	95
9.	Mitosis	111
10.	Mendelian Genetics	126
11.	Biotechnology	143
12.	Reproduction and Development	159
13.	Circulatory System and Blood	176
14.	Evolution	192
	References	210

Key to Phonetic Symbols

Vowels and Diphthongs

1	i:	as in	see /si:/	11	ɜ:	as in	fur /fɜ:(r)/
2	ɪ	as in	sit /sɪt/	12	ə	as in	ago /ə'gəʊ/
3	e	as in	ten /ten/	13	eɪ	as in	page /peɪdʒ/
4	æ	as in	hat /hæt/	14	əʊ	as in	home /həʊm/
5	ɑ:	as in	arm /ɑ:(r)m/	15	aɪ	as in	five /faɪv/
6	ɒ	as in	got /gɒt/	16	aʊ	as in	now /naʊ/
7	ɔ:	as in	saw /sɔ:/	17	ɔɪ	as in	join /dʒɔɪn/
8	ʊ	as in	put /pʊt/	18	ɪə	as in	near /nɪə(r)/
9	u:	as in	too /tu:/	19	eə	as in	hair /heə(r)/
10	ʌ	as in	cup /kʌp/	20	ʊə	as in	pure /pjʊə(r)/

Consonants

1	p	as in	pen /pen/	13	s	as in	so /səʊ/
2	b	as in	bad /bæd/	14	z	as in	zoo /zu:/
3	t	as in	tea /ti:/	15	ʃ	as in	she /ʃi:/
4	d	as in	did /dɪd/	16	ʒ	as in	vision /'vɪʒn/
5	k	as in	cat /kæt/	17	h	as in	how /haʊ/
6	g	as in	got /gɒt/	18	m	as in	man /mæn/
7	tʃ	as in	chin /tʃɪn/	19	n	as in	no /nəʊ/
8	dʒ	as in	June /dʒu:n/	20	ŋ	as in	sing /sɪŋ/
9	f	as in	fall /fɔ:l/	21	l	as in	leg /leg/
10	v	as in	voice /vɔɪs/	22	r	as in	red /red/
11	θ	as in	thin /θɪn/	23	j	as in	yes /jes/
12	ð	as in	then /ðen/	24	w	as in	wet /wet/

/ˈ/ represents *primary stress* as in **about** /ə'baʊt/

/ɪ/ represents *secondary stress* as in **academic** /,ækə'demɪk/

(r) An 'r' in parentheses is heard in British pronunciation when it is immediately followed by a vowel sound.

Otherwise it is omitted. In American pronunciation no 'r' of the phonetic spelling or of the ordinary spelling is omitted.

/-/ Hyphens preceding and/or following parts of a repeated transcription indicate that only the repeated part changes.