Table 1: Phonemes to graphemes (consonants)

	Correspondences found in many different words		High-frequency words containing rare or unique correspondences (graphemes are underlined)
Phoneme	Grapheme(s)	Sample words	
/b/	b, bb	bat, rabbit	
/k/	c, k, ck	cat, kit, duck	s <u>ch</u> ool, mos <u>qu</u> ito
/d/	d, dd, -ed	dog, muddy, pulled	
/f/	f, ff, ph	fan, puff, photo	roug <u>h</u>
/g/	g, gg	go, bigger	
/h/	h	hen	<u>wh</u> o
/j/	j, g, dg	jet, giant, badge	
/l/	I, II	leg, bell	
/m/	m, mm	map, hammer	la <u>mb,</u> autu <u>mn</u>
/n/	n, nn	net, funny	gnat, <u>kn</u> ock
/p/	p, pp	pen, happy	
/r/	r, rr	rat, carrot	<u>wr</u> ite, <u>rh</u> yme
/s/	S, SS, C	sun, miss, cell	<u>sc</u> ent, li <u>st</u> en
/t/	t, tt, -ed	tap, butter, jumped	<u>Th</u> omas, dou <u>bt</u>
/v/	V	van	o <u>f</u>
/w/	W	wig	peng <u>u</u> in, <i>one</i>
/y/	у	yes	on <u>i</u> on
/z/	z, zz s, se, ze	zip, buzz, is, please, breeze	sci <u>ss</u> ors, <u>x</u> ylophone
/sh/	sh, s, ss, t (before –ion and -ial)	shop, sure, mission, mention, partial	spe <u>ci</u> al, <u>ch</u> ef, o <u>ce</u> an
/ch/	ch, tch	chip, catch	
/th/	th	thin	
/th/	th	then	brea <u>the</u>
/ng/	ng, n (before k)	ring, pink	to <u>ngue</u>
/zh/	s (before -ion and -ure)	vision, measure	u <u>su</u> al, beige

Table 2: Phonemes to graphemes (vowels)

	Correspondences for different words	ound in many	High-frequency words containing rare or unique correspondences (graphemes are underlined)
Phoneme	Grapheme(s)	Sample words	
/a/	а	ant	
/e/	e, ea	egg, head	s <u>ai</u> d, s <u>ay</u> s, fr <u>ie</u> nd, l <u>eo</u> pard, <u>a</u> ny
/i/	i, y	in, gym	w <u>o</u> men, b <u>u</u> sy, b <u>ui</u> ld, pr <u>e</u> tty, eng <u>i</u> n <u>e</u>
/o/	o, a	on, was	
/u/1	u, o, o-e	up, son, come	y <u>ou</u> ng, d <u>oe</u> s, bl <u>oo</u> d
/ai/	ai, ay, a-e	rain, day, make	they, veil, weigh, straight
/ee/	ee, ea, e, ie	feet, sea, he, chief	th <u>e</u> s <u>e</u> ² , p <u>eo</u> ple
/igh/	igh, ie, y, i-e, i	night, tie, my, like, find	h <u>eigh</u> t, <u>eye, <i>I</i>, goodb<u>ye</u>, t<u>y</u>p<u>e</u></u>
/oa/	oa, ow, o, oe, o-e	boat, grow, toe, go, oh, though, folk home	
/00/	00, ew, ue, u-e	boot, grew, blue, rule	to, soup, through, two, lose
/00/	00, u	look, put	c <u>ou</u> ld
/ar/	ar, a	farm, father	c <u>al</u> m, <u>are,</u> <u>au</u> nt, h <u>ear</u> t
/or/	or, aw, au, ore, al	for, saw, Paul, more, caught, thought, four, doctalk broad	
/ur/	ur, er, ir, or (after 'w')	hurt, her, girl, work	l <u>ear</u> n, <u>jour</u> ney, <i>w<u>ere</u></i>
/ow/	ow, ou	cow, out dr <u>ough</u> t	
/oi/	oi, oy	coin, boy	
/air/	air, are, ear	fair, care, bear there	
/ear/	ear, eer, ere	dear, deer, here pier	
/ure/ ³		s <u>ure</u> , p <u>oor</u> , t <u>our</u>	
/ə/	many different graphemes	corner, pillar, motor, famous, favour, murmur, about, cotton, mountain, possible, happen, centre, thorough, picture, cupboard and others	

¹ See 'Frequently asked questions: How do local accents affect the teaching of phonics?' on page 17.

² The 'e-e' spelling is rare in words of one syllable but is quite common in longer words, (e.g. *grapheme*, *phoneme*, *complete*, *recede*, *concrete*, *centipede*).

³ The pronunciation of the vowel sound in *sure*, *poor* and *tour* as a diphthong (a short /oo/ sound followed by a schwa) occurs in relatively few words and does not occur in everyone's speech.

Table 3: Graphemes to phonemes (consonants)

	Correspondences found in many different words		Correspondences found in some high-frequency words but not in many/any other words	
Grapheme	Phoneme(s)	Sample words		
b, bb	/b/	bat, rabbit	lamb, debt	
С	/k/, /s/	cat, cell	special	
СС	/k/, /ks/	account, success		
ch	/ch/	chip	school, chef	
ck	/k/	duck		
d, dd	/d/	dog, muddy		
dg	/j/	badge		
f, ff	/f/	fan, puff	of	
g	/g/, /j/	go, gem		
99	/g/, /j/	bigger, suggest		
gh	/g/, /-/	ghost, high	rough	
gn	/n/	gnat, sign		
gu	/g/		guard	
h	/h/	hen	honest	
j	/j/	jet		
k	/k/	kit		
kn	/n/	knot		
I	/\/	leg	half	
II	/\/	bell		
le	/I/ or /əl/	paddle		
m, mm	/m/	map, hammer		
mb	/m/		lamb	
mn	/m/		autumn	
n	/n/, /ng/	net, pink		
nn	/n/	funny		
ng	/ng/, /ng+g/, /n+j/	ring, finger, danger		
p, pp	/p/	pen, happy		
ph	/f/	photo		
qu	/kw/	quiz	mosquito	
r, rr	/r/	rat, carrot		
rh	/r/		rhyme	
s	/s/, /z/	sun, is	sure, measure	

SS	/s/, /sh/	miss, mission	
sc	/s/	scent	
se	/s/, /z/	mouse, please	
sh	/sh/	shop	
t, tt	/t/	tap, butter	listen
tch	/ch/	catch	
th	/th/, / th /	thin, then	Thomas
V	/v/	van	
W	/w/	wig	answer
wh	/w/ or /hw/	when	who
wr	/r/	write	
X	/ks/ /gz/	box, exam	xylophone
у	/y/, /i/ (/ee/), /igh/	yes, gym, very, fly	
уе, у-е			goodbye, type
Z, ZZ	/z/	zip, buzz	

Table 4: Graphemes to phonemes (vowels)

	Correspondences found in many different words		Correspondences found in some high-frequency words but not in many/any other words
Grapheme	Phoneme(s)	Sample words	
а	/a/, /o/, /ar/	ant, was, father	water, any
а-е	/ai/	make	
ai	/ai/	rain	said
air	/air/	hair	
al, all	/al/, /orl/, /or/	Val, shall, always, all, talk	half
ar	/ar/	farm	war
are	/air/	care	are
au	/or/	Paul	aunt
augh			caught, laugh
aw	/or/	saw	
ay	/ai/	say	says
е	/e/, /ee/	egg, he	
ea	/ee/, /e/	bead, head	great
ear	/ear/	hear	learn, heart

ed	/d/, /t/, /əd/	turned, jumped,	
ee	/ee/	bee	
е-е	/ee/	these	
eer	/ear/	deer	
ei	/ee/	receive	veil, leisure
eigh	/ai/	eight	height
er	/ur/	her	
ere	/ear/	here	were, there
eu	/y oo /	Euston	
ew	/yoo/, /oo/	few, flew	sew
ey	/i/ (/ee/)	donkey	they
i	/i/, /igh/	in, mind	
ie	/igh/, /ee/, /i/	tie, chief, babies	friend
i-e	/igh/, /i/, /ee/	like, engine, machine	
igh	/igh/	night	
ir	/ur/	girl	
0	/o/, /oa/, /u/	on, go, won	do, wolf
oa	/oa/	boat	broad
oe	/oa/	toe	shoe
о-е	/oa/, /u/	home, come	
oi	/oi/	coin	
00	/00/, /00/	boot, look	blood
or	/or/, /ur/	for	work
ou	/ow/, / oo /	out, you	could, young, shoulder
our	/owə/, /or/	our, your	journey, tour (see table 2, footnote 3)
OW	/ow/, /oa/	cow, slow	
оу	/oi/	boy	
u	/u/, /oo/	up, put	
ue	/oo/, /yoo/	clue, cue	
u-e	/oo/, /yoo/	rude, cute	
ui			build, fruit
ur	/ur/	fur	
uy			buy

To avoid lengthening this table considerably, graphemes for the schwa are not included, but see table 2.