The English Alphabetic Code

The English language has a fascinating history — but this has resulted in a complex **alphabetic code** for the writing system whereby the 26 letters of the alphabet represent the 44 or so smallest sounds identifiable in English speech in three complicated ways:

- 1. one sound (phoneme) can be represented by one, two, three or four letters: e.g. [a] a, [f] ph, [igh] igh, [oa] ough
- 2. one sound can be represented by multiple spelling alternatives (graphemes): e.g. /oa/: o, oa, ow, oe, o-e, eau, ough
- 3. one grapheme (letter or letter group) can represent multiple sounds: e.g. 'ough': loa! though, lor! thought, long loo! through, lou! plough, lu! thorough
 On this Alphabetic Code Chart, the units of sound (phonemes or combined phonemes) are shown in slash marks. Vowel sounds are shown in red and consonant sounds
 are shown in blue. The vowel sounds provide the main volume and depth in spoken words whereas the consonant sounds are generally much quieter and sometimes very
 high-pitched such as |s| and |t|. Teachers need to teach the separate units of sounds carefully, avoiding the added 'schwa' or "uh" sound: e.g. "sss" not "suh"; "t" not "tuh".

units	of simple code	comple	x code	graphemes	or spelling alternativ	es
soun	d key words	+ key v	vords	which ar	e code for the sound	information
lal	Q apple					The Synthetic Phonics Teaching Principles
lel	e _{egg}	-ea	-ai said again			Teach the KNOWLEDGE of the alphabetic code; that is, the letter/s-sound correspondences.
/i/	insect	- y cymbals				Teach the THREE CORE SKILLS : 1. DECODING : Sound out and
101	O	₩ a tch	QUA qualify	alt		blend all-through-the-printed-word for reading unknown words.
/u/	U umbrella	O	-OU	-ough		2. ENCODING: Orally segment (identify) the sounds all-through-the-spoken-word for spelling; then select the correct graphemes AS CODE
/ai/	ai first aid	-ay	a table	-ae	a-e	FOR the identified sounds in that particular word.
	Just ata	-ey	-ea	eight	-aigh straight	3. HANDWRITING: Hold the pencil with the <i>tripod grip</i> and form correctly the 26 upper case and 26 lower case letters on writing lines .

leel	ee eel	ea eat -ey	emu -ie chief	e-e concrete -ime sardines			Teach a simple code (basic or transparent) first; that is, mainly one spelling for each sound at a rate of two to five letter/s-sound correspondences per week. The simple code is part of the complex code — a first step towards
between /i and ee/ /igh/	-y sunny -igh	-ey	-ie movie	-y	i-e	ei	teaching the alphabetic code. Keep the simple code revised and begin to introduce spelling and pronunciation alternatives of the complex code (extended,
· J	n <mark>igh</mark> t	tie	beh <mark>i</mark> nd	fl <mark>y</mark>	bike	eider duck	advanced or opaque code) at a rate appropriate to the age, stage and
loal	OQ oak tree	OW bow	O yo-yo	-0 <i>e</i>	O-e		ability of the learners. APPLICATION
		-ough	-eau				Provide a cumulative bank of words, sentences and texts at code level: 1. to model blending, segmenting for spelling, and handwriting 2. for each learner to practise his or her growing skills of blending, segmenting and handwriting increasingly independently. Provide cumulative, decodable reading books at code level.
/y+00/	-UE	U unicorn	u-e	eW	eu pneumatic		
short OO	-OO book	-OUL	–U push				
long /00/	OO moon	-Ue	u-e	-6M	-ui fruit		'Two-pronged' teaching approach Teach a systematic, planned
		-OU soup	-O move	-ough			synthetic phonics programme alongside incidental teaching of any letter/s-sound correspondences as required for differentiation, wider
/oi/	O l ointment	oy					reading and spelling and for the wider curriculum - for individuals, groups and whole classes.

/ou/	OU ouch!	OW owl	-ough			Accents Teaching the English alphabetic code is not an 'exact science' and accents need to be taken into
/ar/	artist	Q father	alm palm	-alf	-alves	account at all times along with the notion of 'tweaking' (modifying) pronunciation when decoding to
/or/	Or fork	oars	-OOr	ore snore	-our	reach the correct target word or preferred pronunciation. Schwa effect for reading
or /aw/	aW dawn	au sauce	-al	Wardrobe	QU Q r quarter	Modifying pronunciation also helps to raise awareness of the schwa effect (unstressed syllables) whereby, in reality, a sound close to ull is the
dependent upon regional or national accents		augh	ough			spoken translation of the written code in words such as 'sofa' (sofu), 'faster' (fastu), 'little' (littul),
or can be lerl	er mermaid	ir birthday	Ur nurse	earth	WOr world	'around' (uround). This is common. Schwa effect for spelling Be aware of the schwa effect when
schwa / U/ or 'schwa /er/ '	-er	-OUT	-re	-ar	-Or sailor	segmenting spoken words for spelling.
/air/	air	-are	-ear	-ere		The ability to spell accurately relies on a growing awareness of spelling alternatives and knowledge of spelling word
leerl	eer deer	ears	-ere	-ier cashier		banks (words with the same spelling and sound). This knowledge takes much longer to acquire. Emphasise the process for spelling of
loorl	-oor	-ure				SOUND-TO-PRINT rather than relying on visual memory and recall of letter order and letter names.
/y+oor/	-ure					Decoding is the reverse process: PRINT-TO-SOUND.

units of sound	simple code key words	complex + key w		• • • • • • • • • • • • • • • • • • • •			information
/b/	b	-bb rabbit	bu building				The notion of a 'code' Root all the teaching for decoding
/k/	k kit	C	-Ck	ch chameleon	QU bouquet	que	and encoding in the CODE - that is, the relationship between the sounds of speech and their spelling alternatives (the graphemes). This
/d/	d dig	-dd puddle	-ed				*that letters 'say' sounds - they say nothing, they simply prompt us to
/f/	f feathers	-ff cliff	ph photograph	-gh			generate the sounds either 'aloud' or silently 'in our heads' *that there are 'silent' letters as in
/g/	g girl	-gg juggle	gu guitar	gh ghost	-gue		' k n', ' w r', 'm b ', ' g n' and so on — these are simply further graphemes which ARE CODE FOR the sounds —
/h/	h hat	who					this is consistent, for example, with saying that the grapheme ' igh ' is code for the / igh / sound (we don't suggest that ' gh ' are 'silent letters'
/j/	j jug	-ge	g@ gerbil	g giraffe	gymnast	-dge	*that the end letter 'e' of split
/U	ladder	-[[shell					digraphs a-e , e-e , i-e , o-e and u-e "make the preceding vowel SAY ITS NAME" — this is inconsistent with modern synthetic phonics teaching
/u ₊ l/	-le kettle	-il pencil	-al hospital	-el			rooted in the 'alphabetic code'. To work out 'the code', start from a whole spoken word said
/m/	M map	-mm hammer	-me	-mb	-mn		slowly. Orally segment the word into its sounds and map those onto the graphemes in the written word.

In/ Ing/	n net -ng	-nn bonnet -n	kn knot	gn	-ne engine		THE SUB-SKILLS OF THE THREE CORE SKILLS DECODING SUB-SKILLS: Without print – hear the
Ing.k/	gong -nk ink	jungle -nc uncle					individual sounds of a word and 'discern' the word (= oral blending): hear z i p , say "zip"; hear k oa t , say "coat" With print — see the graphemes and say the sounds to automaticity; see s, say s ; see oa, say oa ; see ph, say f Use capital letter resources — not just lower case letters. Capital letters ARE THE SAME CODE AS lower case letters.
/k+w/ /r/	queen	kW awkward	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	rh			
Isl	rat S snake	-rr arrow -SS glass	write -Ce palace	rhinoceros C@ cents	Ců	C y bicycle	ENCODING SUB-SKILLS: Without print — hear the whole spoken word said slowly, train the learner to split the word into its constituent sounds from beginning to end (= oral segmenting): "zip"
		-Se house	SC scissors	-St- castle	PS pseudonym		"/z/ /i/ /p/"; "coat" "/k/ /oa/ /t/" (with no print, you can use any sounds) -use the left hand, palm facing to tally the separate sounds onto the
/t/	tent	-tt letter	-ed skipped	pt pterodactyl	-bt debt		thumb and fingers from left to right With print — select grapheme tiles or magnetic letters, or write the letters, to spell the sounds identified
/v/ /w/	V violin	-ve dove wh	-u				[Use manipulatives, such as grapheme tiles, at the basic code stage for young learners as they get to grips with handwriting skills —
, •••	web	wheel	penguin				then focus on <i>handwriting</i> to spell.]

/k+s/	-X fox	-ks books	-CRS	-kes	-CS I love picnics.		HANDWRITING SUB-SKILLS: Demonstrate the correct tripod hold – for young learners say, "Froggy legs with the log under" – pinch
Ig+z/	-X exam	-gs pegs	-ggs				the pencil with thumb and forefinger just above where the cone end slopes, make a fist and place the middle finger beneath the pencil to
lyl	y yawn						form the tripod hold, or grip, (small hands struggle to 'grip' fat pencils or marker pens, use regular-sized
/z/	Z zebra	-ZZ jazz	-S fries	-Se cheese	-Ze breeze	X xylophone	pencils) Air write, finger-trace and copy- write graphemes whilst saying the sound - this is 'multi-sensory'
/ch/	ch chairs	-tch		/ch+u/	-ture		the sound — this is 'multi-sensory' linking sounds to shapes and handwriting the shapes (e.g. say /ch/ for 'ch' — not /k/ /h/) Mini whiteboards are suitable for quick-fire 'show me' activities; for handwriting practice — use paper and pencil routines sitting with good posture at desks, paper slanted, spare hand holding paper steady BE VIGILANT for learners hooking their wrists around and writing 'above' the words on the page — ensure they write 'below' the words.
/sh/	sh sheep	ch chef	-ti station	-Ci magician	-SSi admission		
unvoiced /th/	th thistle			/th/	th there		
/zh/	-Si television	-S treasure	-Z azure (blue)	g courgette	-ge		

Please note that this version of an Alphabetic Code Chart is not definitive. Further code may be discovered in both common and unusual words. The word 'giraffe', for example, is common but the grapheme '-ffe' is rare AS CODE FOR the sound /f/. Add discovered code to the chart or to the MAIN PHONICS DISPLAY WALL. On this chart, a grey dash indicates that the particular letter/s-sound correspondence is unlikely to begin a word.

Hollow letters alert the reader to various possible pronunciations; for example, wa could be the code for /w+a/ as in 'wag', but is more likely to be /w+o/ as in 'watch'. This is a generic alphabetic code chart highlighting the vowel sounds followed by the consonant sounds. Alphabetic Code Charts can be designed to be programme-specific according to the order that the letter/s-sound correspondences are introduced and with specific mnemonic systems (aids to memory for the sounds and/or spellings). Vowel sounds can be spelled with both vowel letters and consonant letters such as 'igh', 'ow', 'or', 'ough'. Teachers need to make clear when they are referring to vowel or consonant sounds, or vowel or consonant letters.

For further information, see synthetic phonics guidance documents at www.phonicsinternational.com