

American English Language 43 Phonemes with 135 Spellings of 250 Possible

18 Vowel Sounds with 85 Spellings.\*

Short	
/a/	mat,
/e/	met, bread, said
/i/	sit, gym
/o/	pot, thought, song, all, water, <u>bought</u> , off, <u>trough</u> .
/u/	nut, rough, ton
Long	
/a/	mate, aid, table, play, their, they, eight, steak,
/e/	meet, meat, me, funny, key, piece, protein, scene, police, machine
/i/	bite, my, night, height, type, child, find, sign, tiny, cycle,
/o/	tote, coat, slow, for, door, toe, though, soul, cold, host, poll, both, war
/u/	cute, few, duty, truth,
Other	
/aw/, o	saw
/oo/	took, put, should
/oo/	room, tune, do, group, through, flew, shoe
swa	between, about,
/oy/	boy, oil,
/ou/	out, now, bough
/ar/	car,
/er/	her, first, fur, word

25 Consonant Sounds with 50 Spellings, place and manner of articulation.\*

Manner of articulation	Lips	Lips/teeth	Tongue between teeth	Tongue behind teeth	Roof of mouth	Back of mouth	Throat
<b>Stop</b> (voiceless) (voice)	p b			t, ed d, ed		k, c, ck, ch g	
<b>Nasal</b>	m			n, kn, gn		ng	
<b>Fricative</b> (voiceless) (voice)		f, ph, gh v	th th	s, ce z, s, si	sh, ci, ti, si, ch zh		
<b>Affricate</b> (voiceless) (voice)					ch, tch j, ge, dge		
<b>Glide</b> (voiceless) (voice)					y	wh, qu w	h
<b>Liquid</b>				l r, wr			

\*L. Moats, Speech to Print, 2000, and Denise Eide, Uncovering the Logic of English, 2011

### Recommended Order of Letter Introduction

a m t s i f d r o g l h u c b n k v e w j p y T L M F D I N A R E H G B x q z J Q

Based on the following guidelines

1. Separate visually or auditorily similar letters.
2. Introduce more useful letters first.
3. Introduce lowercase letters first.
4. Introduce only one sound initially for a new letter.
5. Introduce short vowels first.
6. Introduce long vowels with letter combinations or silent e.

### Recommended Order of Letter Combinations Introduction based on regularity, frequency and difficulty

Letter Combination	Sample word	Percentage	Frequency
th (nonvoiced)	thank	74%	411
er	her	97%	313
ing	sing	n/a	n/a
sh	shop	100%	398
wh	when	85%	89
qu	quick	100%	191
ol	old	n/a	n/a
oa	toad	94%	126
ar	car	75%	518
ea	meat	60%	294
oo	room	59%	173
ee	seem	98%	285
ai	tail	90%	254
ch	chin	63%	313
or	short	55%	312
ay	play	97%	131
igh	high	100%	88
ou	out	84%	285
ir	first	100%	104
ur	fur	100%	203
kn	know	100%	41
oi	oil	n/a	n/a
oy	toy	98%	48
ph	phone	100%	242
wr	wrap	100%	48
au	haul	94%	146
aw	saw	100%	75

- \*based on computer analysis of the most common 17,300 words (Hanna et al 1966)
- \* found in Teaching Struggling and At-Risk Readers, Douglas Carnine et al 2006