

#### 44 Consonant Phonemes:

Phoneme	Primary Graphic Symbol	Alternate Graphic Symbol(s)
B – /b/	b as in bat	bu as in build
Hard C – /k/	c as in cat	k as in kit, ch as in chorus, ck as in rock, cu as in biscuit, qu as in bouquet
D – /d/	d as in dim	ed as in named
F – /f/	f as in fan	ph as in phone
Hard G – /g/	g as in gum	gh as in ghost, gue as in league
H – /h/	h as in hut	j as in fajita, wh as in who
J – /j/	j as a jam	dge as in edge, g as in gerbil, ge as in surgeon, gi as in religion
L – /l/	l as in lot	
M – /m/	m as in man	mb as in limb, mn as in hymn
N – /n/	n as in nut	gn as in gnome, kn as in knit, pn as in pneumonia
P – /p/	p as in pin	
R – /r/	r as in rat	rh as in rhyme, wr as in write
Soft S – /s/	s as in sat	c as in city, ps as in psalm
T – /t/	t as in tap	ed as in sniffed, pt as in pterodactyl, bt as in doubt
V – /v/	v as in van	
W – /w/	w as in win	wh as in whale
Consonant Y – /y/	y as in yet	i as in onion
Z – /z/	z as in zip	s as in is, x as in xylophone

## 5 Consonant Digraph Phonemes:

Phoneme	Primary Graphic Symbol	Alternate Graphic Symbol(s)
NG – /ng/	ng as in king	n as in pink
ZH – /zh/	zh as in zhub	ge as in mirage, si as in division, z as in azure
CH – /ch/	ch as in much	cc as in bocci, tch as in witch
SH – /sh/	sh as in push	ce as in ocean, ch as in chef, ci as in social, si as in session, ti as in motion
TH unvoiced and voiced – /th/	th as in moth or the	

## 16 Vowel Phonemes:

Phoneme	Primary Graphic Symbol	Alternate Graphic Symbol(s)
Short A – /ă/	a as in am	ai as in plaid, au as in aunt
Short E – /ĕ/	e as in egg	ae as in aesthetic, ai as in said, ay as in says, ea as in deaf, ei as in heifer, ie as in friend
Short I – /ĭ/	i as in if	ee as in been, ei as in foreit, ie as in kerchief, ui as in build, y as in gym
Short O – /ŏ/	o as in on	eau as in bueaucracy, ough as in bought
Short U – /ŭ/	u as in up	o as in son, oe as in does, oo as in blood, ou as in touch
Short OO – (/öö/)	oo as in book	ou as in could, u as in put
Long A – /ā/	ai as in aim	a as in ape, aigh as in straight, au as in gauge, ay as in day, ea as in great, ei as in veil, eigh as in weigh, et as in ballet, ey as in they

Long E – /ē/	ee as in see	ae as in algae, ay as in quay, ea as in sea, ei as in seize, ey as in turkey, i as in radio, ie as in movie, y as in puppy
Long I – /ī/	ie as in pie	i as in ice, ai as in aisle, ay as in cayenne, ei as in feisty, eigh as in height, ey as in geyser, igh as in light, ui as in guide, uy as in buy, y as in cry
Long O – /ō/	oa as in oat	o as in oval, au as in chauffeur, eau as in bureau, ew as in sew, oe as in toe, oo as in brooch, ou as in soul, ough as in dough, ot as in depot, ow as in snow
Long OO – (/ōō/)	ew as in grew	ue as in blue, eu as in neutral, o as in womb, oe as in canoe, oo as in boo, ou as in you, ough as in through, u as in brutal, ui as in fruit
OU – /ou/	ou as in out	au as in sauerkraut, ough as in plow, ow as in how
OY – /oy/	oy as in toy	oi as in boil
Broad A – /ä/	ah as in blah	a as in father
AU – /au/	au as in auto	augh as in caught, aw as in paw
Schwa – /ə/	ə	a as in about, ai as in mountain, e as in oven, i as in pencil, o as in carrot, u as in supply, y as in vinyl

### 5 R-Controlled Phonemes:

Phoneme	Primary Graphic Symbol	Alternate Graphic Symbol(s)
ER	er as in her	ear as in heard, ir as in first, or as in color, wor as in work, our as in courage, ur as in blur, yr as in syrup
AR	ar as in car	er as in sergeant

OR	or as in for	aur as in aura, oar as in roar, oor as in door, our as in four
AIR	air as in hair	er as in concerto, ear as in bear, eir as in their
EAR	ear as in hear	eer as in cheer, eir as in weird, ir as in mirror, ier as in pier, yr as in lyric

**4 Blends:**

Blend	Primary Graphic Symbol	Alternate Graphic Symbol(s)
EUR – /yr/	eur as in euro	
QU – /kw/	qu as in queen	
Long U – /yōō/	yew as in yew	u as in unicorn, eu as in feud, eau as in beauty, ew as in few, ut as in debut, iew as in view
X – /ks/ and /gz/	x as in box and exit	