

**BLUMENFELD'S ALPHA-PHONICS
SELF-TUTOR**

PHONOGRAM CARDS

Created by Donald L. Potter

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www.donpotter.net

The Blumenfeld's Alpha-Phonics Phonograms

Key Words

Prepared by Donald Potter

10/26/1999 - revised 12/27/2003 and 7/5/2021

The *Alpha-Phonics Phonograms* teach the **variable symbol-to-sound correspondences** of the English alphabetic writing system. The Phonograms are numbered according the order in which they are introduced in *Alpha-Phonics*. The underlined letters give the sound or sounds of the phonograms. Say the sounds in isolation in the order given as you practice drilling the phonograms with the students. The key words are for the instructor only. Simply reciting the sounds of each phonogram in the order indicated is all the teacher needs to do. The sounds are in order of frequency.

- | | | | |
|--|--|---|---|
| 1. a <u>a</u> t <u>a</u> te <u>f</u> a <u>t</u> her <u>b</u> all | 21. ck <u>b</u> ack | 41. eigh <u>e</u> ight | 61. ew <u>th</u> rew |
| 2. m <u>m</u> om | 22. qu <u>q</u> uack | 42. au <u>h</u> aul | 62. eu <u>f</u> eu <u>d</u> |
| 3. n <u>n</u> oon | 23. k <u>k</u> id | 43. aw <u>p</u> aw | 63. ir <u>f</u> ir <u>s</u> t |
| 4. s <u>s</u> at <u>a</u> s | 24. e <u>p</u> e <u>t</u> <u>h</u> e | 44. ar <u>c</u> ar | 64. ur <u>n</u> ur <u>s</u> e |
| 5. t <u>t</u> ot | 25. i <u>i</u> t <u>k</u> ite <u>t</u> ax <u>i</u> | 45. ee <u>b</u> ee | 65. wor <u>w</u> ork |
| 6. x <u>a</u> x | 26. o <u>p</u> o <u>t</u> <u>g</u> o <u>l</u> o <u>v</u> e <u>d</u> o | 46. ea <u>b</u> ea <u>d</u> <u>h</u> ea <u>d</u> <u>b</u> ea <u>r</u> | 66. ear <u>e</u> ar <u>l</u> y |
| 7. h <u>h</u> at | 27. u <u>c</u> u <u>t</u> <u>u</u> s <u>e</u> <u>m</u> u <u>s</u> ic <u>p</u> u <u>t</u> | 47. ie <u>f</u> ie <u>l</u> d <u>p</u> ie | 67. our <u>c</u> ou <u>r</u> age |
| 8. d <u>d</u> ad | 28. ph <u>p</u> h <u>o</u> ne | 48. igh <u>l</u> igh <u>t</u> | 68. sc <u>c</u> on <u>s</u> ci <u>e</u> nce |
| 9. w <u>w</u> ax | 29. th <u>t</u> h <u>e</u> <u>t</u> h <u>i</u> n | 49. ough <u>o</u> ugh <u>t</u> <u>t</u> hough <u>t</u> hrough | 69. ci <u>s</u> pe <u>c</u> ial |
| 10. l <u>l</u> ap | 30. sh <u>s</u> h <u>i</u> p | 50. augh <u>c</u> au <u>g</u> h <u>t</u> | 70. si <u>m</u> iss <u>i</u> o <u>n</u> <u>v</u> is <u>i</u> o <u>n</u> |
| 11. b <u>B</u> ob | 31. ch <u>c</u> h <u>u</u> r <u>ch</u> <u>s</u> ch <u>o</u> ol <u>m</u> ach <u>i</u> ne | 51. gh <u>r</u> ough | 71. ti <u>n</u> ati <u>o</u> n |
| 12. c <u>c</u> at <u>c</u> ity | 32. wh <u>w</u> h <u>e</u> el | 52. oa <u>b</u> oa <u>t</u> | 72. xi <u>a</u> n <u>x</u> ious |
| 13. g <u>g</u> um <u>g</u> em | 33. ng <u>s</u> ing | 53. ow <u>c</u> ow <u>s</u> now | 73. su <u>s</u> ure <u>t</u> reasure |
| 14. j <u>j</u> et | 34. er <u>h</u> er | 54. oe <u>t</u> oe | 74. tu <u>p</u> ic <u>t</u> ure |
| 15. f <u>f</u> an | 35. tch <u>c</u> atch | 55. oo <u>f</u> oo <u>d</u> <u>g</u> oo <u>d</u> <u>d</u> oo <u>r</u> <u>b</u> loo <u>d</u> | 75. kn <u>k</u> nee |
| 16. p <u>p</u> op | 36. dge <u>e</u> dge | 56. ou <u>l</u> ou <u>d</u> <u>o</u> ur <u>s</u> ou <u>p</u> <u>s</u> hou <u>l</u> d | 76. mb <u>c</u> omb |
| 17. r <u>r</u> oar | 37. ai <u>m</u> ail | 57. oy <u>t</u> oy | 77. wr <u>w</u> rite |
| 18. v <u>v</u> an | 38. ay <u>d</u> ay | 58. oi <u>o</u> il | 78. st <u>l</u> isten |
| 19. y <u>y</u> es <u>g</u> ym <u>b</u> aby <u>b</u> y | 39. ey <u>k</u> ey <u>t</u> hey | 59. ue <u>g</u> lue | 79. ps <u>p</u> sych <u>e</u> |
| 20. z <u>z</u> ebra | 40. ei <u>p</u> ro <u>t</u> ein <u>r</u> eign | 60. ui <u>f</u> ruit | 80. ed <u>a</u> ct <u>e</u> d <u>c</u> all <u>e</u> d |

BLUMENFELD'S ALPHA-PHONICS

PHONOGRAMS PRACTICE CHART

Step 1. a⁴ m n s² t x h d w l b c² g² j f p r v y⁴ z ck qu k

Step 2. e² i² o⁴ u⁴ ph th²

Step 3. sh ch³ wh

Step 4. No new Phonograms

Step 5. ng er

Step 6. tch dge

Step 7. [ay ai] ey² ei² eigh [au aw] ar

Step 8. ee ea³ ie² igh

Step 9. ough³ augh gh oa ow² oo⁴ ou⁴ [oy oi] ue ui ew eu

Step 10. ir ur wor ear² our sc ci si² ti xi su² tu kn mb wr st ps ed³

Blumenfeld

Alpha-Phonics Self-Tutor

Phonogram Flashcards

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Note from Internet Publisher: Donald L. Potter

These Phonogram cards are based on those published by Romalda Spalding in her 1957 *Writing Road to Reading*. The order of presentation follows the phonics sequence in my *Blumenfeld's Alpha-Phonics Self-Tutor*, which aims to make reading instruction self-tutor via Online audio instruction.

The Phonograms teach the various sounds represented by English letters and letter combinations. The sounds associated with the letters that have multiple sounds are in order of frequency in written English. It is very helpful conceptually and practically for student to understand these two fundamental realities of written English: (1) some letters and letter combinations represent more than one sound. (2) Sounds can be represented by more than one letter or combination of letters. Information on Zaner-Bloser manuscript letter strokes can be found on the final pages of this document.

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4 Sounds

A a

a: at, ate, father, ball. /ă/ /ā/ /ō/ /ä/

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M m

m: mom

Alpha-Phonics Phonogram **Card 2** (Step 1) Copyright © 2009 by Donald L. Potter

N n

n: noon

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2 Sounds

S s

s: sat as /s/ /z/

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T t

t: tot /t/

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X x

x: ax: /ks/

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H h

h: hat /h/

Alpha-Phonics Phonogram **Card 7** (Step 1) Copyright © 2009 by Donald L. Potter

D d

d: dad /d/

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W w

w: wax /w/

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L l

l: lap /l/

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B b

b: Bob /b/

Alpha-Phonics Phonogram **Card 11** (Step 1) Copyright © 2009 by Donald L. Potter

2 Sounds

C c

c: cat, city /k/ /s/ C says /s/ with e, i, or y.

Alpha-Phonics Phonogram **Card 12** (Step 1) Copyright © 2009 by Donald L. Potter

2 Sounds

G g

g: gum gem /g/ /j/ G usually says /j/ with e, i, or y.

Alpha-Phonics Phonogram **Card 13** (Step 1) Copyright © 2009 by Donald L. Potter

J j

j: jet /j/

Alpha-Phonics Phonogram **Card 14** (Step 1) Copyright © 2009 by Donald L. Potter

F f

f: fan /f/

Alpha-Phonics Phonogram **Card 15** (Step 1) Copyright © 2009 by Donald L. Potter

P p

p: pap /p/

Alpha-Phonics Phonogram **Card 16** (Step 1) Copyright © 2009 by Donald L. Potter

R r

r: roar /r/

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V v

v: van /v/

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4 Sounds

Y y

y: yes gym baby by

Alpha-Phonics Phonogram **Card 19** (Step 1) Copyright © 2009 by Donald L. Potter

Z z

z: zebra

Alpha-Phonics Phonogram **Card 20** (Step 1) Copyright © 2009 by Donald L. Potter

ck

ck: ck Two-letter /k/ that we use after a short vowel.

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qu

qu: quack Two-letter /kw/

Alpha-Phonics Phonogram **Card 22** (Step 1) Copyright © 2009 by Donald L. Potter

K k

k: kid

Alpha-Phonics Phonogram **Card 23** (Step 1) Copyright © 2009 by Donald L. Potter

2 Sounds

E e

e: pet he /ě/ /ē E is silent at the end of words.

Alpha-Phonics Phonogram **Card 24** (Step 2) Copyright © 2009 by Donald L. Potter

2 Sounds

I i

i: it, kite The letter “i” cannot be used at the end of English words.

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4 Sounds

O o

o: pot go love do /ō/ ō/ /ū/ /ōō/

Alpha-Phonics Phonogram **Card 26** (Step 2) Copyright © 2009 by Donald L. Potter

4 Sounds

U u

u: cut use music put /ū/ /ū/ /ōō/ /ōō/ U cannot be used at the end of words.

Alpha-Phonics Phonogram **Card 27** (Step 2) Copyright © 2009 by Donald L. Potter

ph

ph: phone Two-letter /f/ that is a Greek Phonogram.

Alpha-Phonics Phonogram **Card 28** (Step 2) Copyright © 2009 by Donald L. Potter

2 Sounds

th

th: the thin

Alpha-Phonics Phonogram **Card 29** (Step 2) Copyright © 2009 by Donald L. Potter

sh

sh: ship Two-letter /sh/ that we do use at the beginning and end of words.

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3 Sounds

ch

ch: church school machine

Alpha-Phonics Phonogram **Card 31** (Step 3) Copyright © 2009 by Donald L. Potter

wh

wh: wheel

Alpha-Phonics Phonogram **Card 32** (Step 3) Copyright © 2009 by Donald L. Potter

ng

ng: sing /ng/ Two-letter /ng/.

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er

er: her /ûr/ The /ûr/ of her.

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tch

tch: catch Three-letter /ch/

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dge

dge: catch Three-letter /j/

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ai

ai: Two-letter /ā/ that we do **not** use at the end of the words.

Alpha-Phonics Phonogram **Card 37** (Step 7) Copyright © 2009 by Donald L. Potter

ay

ai: Two-letter /ā/ that we do use at the end of the words.
Alpha-Phonics Phonogram **Card 38** (Step 7) Copyright © 2009 by Donald L. Potter

2 Sounds

ey

ey: key they
Alpha-Phonics Phonogram **Card 39** (Step 7) Copyright © 2009 by Donald L. Potter

2 Sounds

ei

ei: protein reign
Alpha-Phonics Phonogram **Card 40** (Step 7) Copyright © 2009 by Donald L. Potter

eigh

eigh: eight Four-letter /a/

Alpha-Phonics Phonogram **Card 41** (Step 7) Copyright © 2009 by Donald L. Potter

au

au: haul

Alpha-Phonics Phonogram **Card 42** (Step 7) Copyright © 2009 by Donald L. Potter

aw

aw: paw

Alpha-Phonics Phonogram **Card 43** (Step 7) Copyright © 2009 by Donald L. Potter

ar

ar: car

Alpha-Phonics Phonogram Card 44 (Step 7) Copyright © 2009 by Donald L. Potter

ee

ee: bee

Alpha-Phonics Phonogram Card 45 (Step 8) Copyright © 2009 by Donald L. Potter

3 Sounds

ea

ea: bead head bear

Alpha-Phonics Phonogram Card 46 (Step 8) Copyright © 2009 by Donald L. Potter

2 Sounds

ie

ie: field pie

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igh

igh: light Three-letter /i/

Alpha-Phonics Phonogram **Card 48** (Step 8) Copyright © 2009 by Donald L. Potter

3 Sounds

ough

ough: ought though thought /ɔ/ /ō/ /ōō/

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augh

augh: caught

Alpha-Phonics Phonogram **Card 50** (Step 9) Copyright © 2009 by Donald L. Potter

gh

gh: rough Two-letter /f/.

Alpha-Phonics Phonogram **Card 51** (Step 9) Copyright © 2009 by Donald L. Potter

oa

oa: boat Two-letter /ō/. The /ō/ of boat.

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2 Sounds

ow

ow: cow snow

Alpha-Phonics Phonogram **Card 53** (Step 9) Copyright © 2009 by Donald L. Potter

oe

oe: toe. Two-letter /ō/. The /ō/ of toe.

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4 Sounds

oo

oo: food good door blood /ō/ /ō/ /ō/ /ū/

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4 Sounds

ou

ou: loud four soup should /ou/ /ō/ /ōō/ /ōō/

Alpha-Phonics Phonogram **Card 56** (Step 9) Copyright © 2009 by Donald L. Potter

oy

oy: toy /oi/ Two-letter /oi/ that we do use at the end of words.

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oi

oi: oil /oi/ Two-letter /oi/ that we do **not** use at the end of words.

Alpha-Phonics Phonogram **Card 58** (Step 9) Copyright © 2009 by Donald L. Potter

ue

ue: glue /oo/

Alpha-Phonics Phonogram **Card 59** (Step 9) Copyright © 2009 by Donald L. Potter

ui

ui: fruit /oo/

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ew

ew: threw

Alpha-Phonics Phonogram **Card 61** (Step 9) Copyright © 2009 by Donald L. Potter

eu

eu: feud /oo/

Alpha-Phonics Phonogram Card 62 (Step 9) Copyright © 2009 by Donald L. Potter

eu

ir: The /ur/ of first.

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ur

ur: The /ur/ of nurse

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wor

wor: The /ûr/ of work

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2 Sounds

ear

ear: ear The /ûr/ of early

Alpha-Phonics Phonogram **Card 66** (Step 10) Copyright © 2009 by Donald L. Potter

-our-

our: The /ûr/ of courage.

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SC

sc: conscience /sh/

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ci

ci: conscience /sh/

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2 Sounds

si

si: mission vision /sh/ /zh/

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ti

ti: nation /sh/

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xi

xi: anxious /sh/

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2 Sounds

su

su: sure treasure /sh/ /zh/

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tu

tu: picture /ch/

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kn

kn: knee Two-letter /n/

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mb

mb: comb /m/

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wr

wr: write /r/ Two-letter /r/

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st

st: stlisten /s/

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ps

ps: psyches /s/

Alpha-Phonics Phonogram **Card 79** (Step 10) Copyright © 2009 by Donald L. Potter

3 Sounds

ed

ed: acted called baked /ĕd/ /d/ /t/

Alpha-Phonics Phonogram **Card 80** (Step 10) Copyright © 2009 by Donald L. Potter

Note from Mr. Potter

June 6, 2021

These phonograms were last revised on June 12, 2021. They help student to develop an **automatic response** to the sound represented by the letters. The phonograms were based a list which Samuel Orton's students created for teaching reading. Romalda Spalding adapted them for her WRTR program in 1957. Dr. David Hickerson incorporated them in his *Phonics Tutor*, which was a brilliant computer program designed to teach Samuel L. Blumenfeld 's 1983 *Alpha-Phonics*. I taught them in 1999-2000 to a class of bilingual 2nd grade students. These cards have been updated to the 1997 edition, which was Sam Blumenfeld's final revision. For more information see my "Tutoring Resources" page on my website: www.donpotter.net

It is good to teach the phonograms in a fun game format such as Go-Fish. It is essential for the kid to be able to write the phonograms from dictation.

The Phonograms are perfect for developing phonemic awareness. They are doubly powerful because they couple both the phonemic side of language with the written side simultaneously.

Aim for an **automatic response** through spaced repetition.

ZANER-BLOSER MANUSCRIPT

FOR TEACHING BLUMENFELD'S ALPHA-PHONICS SELF-TUTOR

Phonetic Order for Teaching the Individual Letters

A a, M m, N n, S s, T t, X x, H h, D d, L l, W w, B b, C c, F f, G g, J j, R r, V v, P p, Y y, Z z, Ee, I i, O o, U u, Q q, K k.

Zaner-Bloser Strokes for teaching manuscript letters (Motor Patterns)

A: 1. Slant left, lift. 2. Slant right, lift. 3. Slide right.

a: 1. Circle back all the way around, push up straight. Pull down straight.

M: 1. Pull down straight, lift. 2. Slant right. Slant up. Pull down straight.

m: 1. Pull down straight. Push up; curve forward; pull down straight. Push up; curve forward; pull down straight.

N: 1. Pull down straight, lift. 2. Slant right. Push up straight.

n: 1. Pull down straight. Push up; curve forward; pull down straight.

S: 1. Curve back; curve forward.

s: 1. Curve back; curve forward.

T: 1 Pull down straight. Lift. 2. Slide right.

t: 1 Pull down straight. Lift. 2. Slide right.

X: 1. Slant right. Lift. 2. Slant left.

x: 1. Slant right. Lift. 2. Slant left.

H: 1. Pull down straight. Lift. 2 Pull down straight, Lift. 3. Slide right.

h: 1. Pull down straight. Push up; curve forward; pull down straight.

D: 1. Pull down straight. Lift. 2. Slide right; curve forward; slide left.

d: 1. Circle back all the way around; push up straight. Pull down straight.

L: 1. Pull down straight. Slide right.

l: 1. Pull down straight.

W: 1. Slant right. Slant up. Slant right. Slant up.

w: 1. Slant right. Slant up. Slant right. Slant up.

B: 1. Pull down straight. Lift. 2. Slide right; curve forward; slide left. Slide right; curve forward; slide left.

b: 1. Pull down straight. Push up; circle forward.

C: 1. Circle back.

c: 1. Circle back.

F: 1. Pull down straight. Lift. 2. Slide right. Lift. 3. Slide right; stop short.

f: 1. Curve back; pull down straight. Lift. 2. Slide right.

G: 1. Circle back. Slide left.

g: 1. Circle back all the way around; push up straight. Pull down straight; curve back.

J: 1. Pull down straight; curve back. Lift. 2. Slide right.

j: 1. Pull down straight; curve back. Lift. 2. Dot.

R: 1. Pull down straight. Lift. 2. Side right; curve forward; slide left. Slant right.

r: 1. Pull down straight. Push up curve forward.

V: 1. Slant right. Slant up.

v: 1. Slant right. Slant up.

P: 1. Pull down straight. Lift. 2. Slide right; curve forward; slide left.

p: 1. Pull down straight. Push up; circle forward.

Y: 1. Slant right. Lift. 2. Slant left. Pull straight down.

y: 1. Slant right. Lift. 2. Slant left.

Z: 1. Slide right. Slant left. Slide right.

z: 1. Slide right. Slant left. Slide right.

E: 1. Pull down straight. Lift. 2. Slide right. Lift. 3. Slide right; stop short. Lift. 4. Side right.

e: 1. Slide right. Circle back.

O: 1. Circle back all the way around.

o: 1. Circle back all the way around.

U: 1. Pull down straight; curve forward; push up.

u: 1. Pull down straight; curve forward; push up. Pull down straight.

Q: 1. Circle back all the way around. Lift. 2. Slant right.

q: 1. Circle back all the way around; push up straight. Pull down straight; curve forward.

K: 1. Pull down straight. Lift. 2. Slant left. Slant right.

k: 1. Pull down straight. Lift. 2. Slant left. Slant right.

?: Curve forward; pull down straight. Dot.

!: Pull down straight. Lift. Dot.

ZANER-BLOSER DETAILED MANUSCRIPT STROKE DESCRIPTIONS

FOR TEACHING BLUMENFELD'S ALPHA-PHONICS SELF-TUTOR

- A:** Touch the headline; **slant left** to the baseline. **Lift.** Touch the headline; **slant right** to the baseline. **Lift.** Touch the midline; **slide right**.
- a:** Touch below the midline; **circle back** (left) **all the way around**. **Push up straight** to the midline. **Pull down straight** to the baseline.
- M:** Touch the headline; **pull down straight** to the baseline. **Lift.** Touch the headline; **slant right** to the baseline. **Slant up** (right) to the head- line. **Pull down straight** to the baseline.
- m:** Touch the midline; **pull down straight** to the baseline. **Push up; curve forward** (right); **pull down straight** to the baseline. **Push up; curve forward** (right); **pull down straight** to the baseline.
- N:** Touch the headline; **pull down straight** to the baseline. **Lift.** Touch the headline; **slant right** to the baseline. **Push up straight** to the headline.
- n:** Touch the midline; **pull down straight** to the baseline. **Push up; curve forward** (right); **pull down straight** to the baseline.
- S:** Touch below the headline; **curve back** (left); **curve forward** (right), ending above the baseline.
- s:** Touch below the midline; **curve back** (left); **curve forward** (right), ending above the baseline.
- T:** Touch the headline; **pull down straight** to the baseline. **Lift.** Touch the headline; **slide right**.
- t:** Touch the headline; **pull down straight** to the baseline. **Lift.** Touch the midline; **slide right**.
- X:** Touch the headline; **slant right** to the base- line. **Lift.** Move to the right and touch the headline; **slant left** to the baseline.
- x:** Touch the midline; **slant right** to the baseline. **Lift.** Move to the right and touch the midline; **slant left** to the baseline.
- H:** Touch the headline; **pull down straight** to the baseline. **Lift.** Move to the right and touch the headline; **pull down straight** to the baseline. **Lift.** Move to the left and touch the midline; **slide right**.
- h:** Touch the headline; **pull down straight** to the baseline. **Push up; curve forward** (right); **pull down straight** to the baseline.

- D:** Touch the headline; **pull down straight** to the baseline. **Lift.** Touch the headline; **slide right; curve forward** (right) to the baseline; **slide left.**
- d.** Touch below the midline; **circle back** (left) **all the way around.** **Push up straight** to the headline. **Pull down straight** to the baseline
- L:** Touch the headline; **pull down straight** to the baseline. **Slide right.**
- l:** Touch the headline; **pull down straight** to the baseline.
- W:** Touch the headline; **slant right** to the baseline. **Slant up** (right) to the headline. **Slant right** to the baseline. **Slant up** (right) to the headline.
- w:** Touch the midline; **slant right** to the baseline. **Slant up** (right) to the midline. **Slant right** to the baseline. **Slant up** (right) to the midline.
- B:** Touch the headline; **pull down straight** to the baseline. **Lift.** Touch the headline; **slide right; curve forward** (right) to the midline; **slide left. Slide right; curve forward** (right) to the base- line. **Slide left.**
- b:** Touch the headline; **pull down straight** to the baseline. **Push up; circle forward** (right) all the way around.
- C:** Touch below the headline; **circle back** (left), ending above the baseline.
- c:** Touch below the midline; **circle back** (left), ending above the baseline.
- F:** Touch the headline; **pull down straight** to the baseline. **Lift.** Touch the headline; **slide right. Lift.** Touch the midline; **slide right. Stop short. Lift.** Touch the baseline; **slide right.**
- f:** Touch below the midline; **circle back** (left) **all the way around.** **Push up straight** to the midline. **Pull down straight** through the base- line to the next guideline; **curve back** (left).
- G:** Touch below the headline; **circle back** (left), ending at the midline. **Slide left.**
- g:** Touch below the midline; **circle back** (left) **all the way around.** **Push up straight** to the midline. **Pull down straight** through the base- line to the next guideline; **curve back** (left)
- J:** Touch the headline; **pull down straight; curve back** (left). **Lift.** Touch the headline; **slide right.**
- j:** Touch the midline; **pull down straight** through the baseline to the next guideline; **curve back** (left). **Lift. Dot.**
- R.** Touch the headline; **pull down straight** to the baseline. **Lift.** Touch the headline; **slide right; curve forward** (right) to the midline; **slide left. Slant right** to the baseline.
- r:** Touch the midline; **pull down straight** to the baseline. **Push up; curve forward** (right).
- V:** Touch the headline; **slant right** to the base- line. **Slant up** (right) to the headline.
- v:** Touch the midline; **slant right** to the baseline. **Slant up** (right) to the headline.

- P:** Touch the headline; **pull down straight** to the baseline. **Lift.** Touch the headline; **slide right; curve forward** (right) to the midline; **slide left.**
- p:** Touch the midline; **pull down straight** through the baseline to the next guideline. **Push up; circle forward** (right) **all the way around.**
- Y:** Touch the headline; **slant right** to the mid- line. **Lift.** Move to the right and touch the headline; **slant left** to the midline. **Pull down straight** to the baseline.
- y:** Touch the midline; **slant right** to the baseline. **Lift.** Move to the right and touch the midline; **slant left** through the baseline to the next guideline.
- Z:** Touch the headline; **slide right. Slant left** to the baseline. **Slide right.**
- z:** Touch the midline; **slide right. Slant left** to the baseline. **Slide right.**
- E:** Touch the headline; **pull down straight** to the baseline. **Lift.** Touch the headline; **slide right. Lift.** Touch the midline; **slide right. Stop short. Lift.** Touch the baseline; **slide right.**
- e:** Touch halfway between the midline and baseline; **slide right; circle back** (left), ending above the baseline.
- O:** Touch below the headline; **circle back** (left) **all the way around.**
- o:** Touch below the midline; **circle back** (left) **all the way around.**
- U:** Touch the headline; **pull down straight; curve forward** (right); **push up** to the headline.
- u:** Touch the midline; **pull down straight; curve forward** (right); **push up** to the midline. **Pull down straight** to the baseline.
- Q:** Touch below the headline; **circle back** (left) **all the way around. Lift. Slant right** to the baseline.
- q:** Touch below the midline; **circle back** (left) **all the way around. Push up straight** to the midline. **Pull down straight** through the baseline to the next guideline; **curve forward** (right).
- K:** Touch the headline; **pull down straight** to the baseline. **Lift.** Move to the right and touch the headline; **slant left** to the midline. **Slant right** to the baseline.
- k:** Touch the headline; **pull down straight** to the baseline. **Lift.** Move to the right and touch the midline; **slant left. Slant right** to the baseline.
- ?:** Curve forward; pull down straight. Dot.
- !:** Pull down straight. Lift. Dot.

Detailed Stroke Description accompanied by pictures with numbers are included in the document below.

<https://www.tesd.net/cms/lib/PA01001259/Centricity/Domain/1367/Zaner%20Bloser%20Handwriting%20Stroke%20Information.pdf>

Note: The numbers with the abbreviated Stroke Descriptions indicate where the strokes start. The numbers are not needed with the Detailed Manuscript Stroke Descriptions because the verbal descriptions indicate the starting positions.

I plan to do a video demonstrating the construction of the letters following the detailed description.

This document was last edited by Mr. Donald Potter on July 23, 2021.

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