Graphemes and Corresponding Phonemes
Based on Devin's Program and Words in the EWFG for Grades 1-8
Limited GPC Set (Eliminates Very Low Frequency GPCs)

**a**/e/ 474 uses
/æ/ 1675 uses
/ɑ/ 108 uses
/ɔ/ 101 uses
/ə/ 1107 uses
/ɛ/ 31 uses

**a-e**/e/ 341 uses
/ə/ 48 uses

**ai**/e/ 209 uses

**air**/ɛɹ/ 47 uses

**ar**/ɑɹ/ 365 uses
/ɔɹ/ 41 uses
/ɛɹ/ 33 uses
/ɝ/ 139 uses

**are**/ɛɹ/ 61 uses

**au**/ɔ/ 68 uses

**aw**/ɔ/ 74 uses

**ay**/e/ 149 uses

**b**/b/ 1410 uses

**c**/k/ 1612 uses
/s/ 482 uses
/ʃ/ 36 uses

**ch**/k/ 63 uses
/ʧ/ 313 uses

**ck**/k/ 312 uses

**d**/d/ 2691 uses
/t/ 43 uses

**e**/-/ 397 uses
/i/ 214 uses
/ə/ 1626 uses
/ɛ/ 1388 uses
/ɪ/ 217 uses

**ea**/i/ 320 uses
/ɛ/ 102 uses

**ear**/ɝ/ 32 uses
/ɪɚ/ 71 uses

**ed**/d/ 435 uses
/t/ 268 uses

**ee**/i/ 271 uses

**eer**/ɪɚ/ 30 uses

**er**/ɝ/ 1295 uses

**ew**/u/ 55 uses

**ey**/i/ 57 uses

**f**/f/ 1074 uses

**g**/dʒ/ 305 uses
/g/ 813 uses

**h**/-/ 49 uses
/h/ 600 uses

**i**/-/ 261 uses
/aɪ/ 368 uses
/i/ 216 uses
/j/ 56 uses
/ə/ 380 uses
/ɪ/ 2839 uses

**i-e**/aɪ/ 296 uses
/ɪ/ 53 uses

**ie**/aɪ/ 45 uses
/i/ 190 uses

**igh**/aɪ/ 98 uses

**ir**/ɝ/ 85 uses

**ire**/aɪɝ/ 47 uses

**j**/dʒ/ 215 uses

**k**/k/ 656 uses

**kn**/n/ 33 uses

**l**/l/ 3456 uses

**le**/ɫ/ 293 uses

**m**/m/ 1948 uses

**n**/n/ 3906 uses
/ŋ/ 189 uses

**ng**/ŋ/ 1055 uses

**o**/ou/ 472 uses
/u/ 34 uses
/ɑ/ 720 uses
/ɔ/ 109 uses
/ə/ 818 uses
/ʌ/ 118 uses

**o-e**/ou/ 154 uses
/ʌ/ 33 uses

**oa**/ou/ 99 uses

**oi**/oɪ/ 71 uses

**oo**/u/ 178 uses
/ʊ/ 91 uses

**or**/ɔɹ/ 282 uses
/ɝ/ 231 uses

**ore**/ɔɹ/ 50 uses

**ou**/aʊ/ 192 uses
/ə/ 41 uses
/ʌ/ 37 uses

**ow**/aʊ/ 125 uses
/ou/ 155 uses

**oy**/oɪ/ 40 uses

**p**/p/ 2099 uses

**ph**/f/ 89 uses

**qu**/kw/ 97 uses

**r**/r/ 2440 uses

**s**/s/ 3602 uses
/z/ 2201 uses
/ʃ/ 37 uses
/ʒ/ 38 uses

**sh**/ʃ/ 390 uses

**t**/-/ 37 uses
/t/ 3980 uses
/ʃ/ 189 uses
/ʧ/ 64 uses

**tch**/ʧ/ 84 uses

**th**/ð/ 104 uses
/ɵ/ 270 uses

**u**/-/ 44 uses
/ju/ 71 uses
/jə/ 33 uses
/u/ 143 uses
/ʊ/ 51 uses
/ʌ/ 959 uses

**u-e**/u/ 52 uses

**ur**/ɝ/ 184 uses

**ure**/ɝ/ 56 uses

**v**/v/ 742 uses

**w**/w/ 600 uses

**wh**/w/ 72 uses

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