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  
  
**wr**/r/ 39 uses  
  
**x**/ks/ 149 uses  
  
**y**/aɪ/ 72 uses  
/i/ 892 uses  
/j/ 79 uses  
/ɪ/ 60 uses  
  
**z**/z/ 144 uses

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**oa**/ou/ 99 uses  
  
**oi**/oɪ/ 71 uses  
  
**oo**/u/ 178 uses  
/ʊ/ 91 uses  
  
**or**/ɔɹ/ 282 uses  
/ɝ/ 231 uses  
  
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**ou**/aʊ/ 192 uses  
/ə/ 41 uses  
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**ow**/aʊ/ 125 uses  
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**oy**/oɪ/ 40 uses  
  
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