Lexical and Sublexical Orthographic Knowledge Across the Elementary Grades  
ASHA 2018

Demographics by Grade

<table>
<thead>
<tr>
<th>Grade</th>
<th>Total N</th>
<th>Mean age</th>
<th>Gender</th>
<th>Caucasian</th>
<th>African American</th>
<th>Hispanic/Latino</th>
<th>Asian</th>
<th>Native American</th>
<th>Multi-racial</th>
<th>Marshallese</th>
<th>Special Services</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Males</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Yes (currently or in past)</td>
</tr>
<tr>
<td></td>
<td>174</td>
<td>7.38</td>
<td>78 (44.8%)</td>
<td>79 (45.4%)</td>
<td>66</td>
<td>6</td>
<td>2</td>
<td>0</td>
<td>15</td>
<td>1</td>
<td>64 (36.7%)</td>
</tr>
<tr>
<td></td>
<td>218</td>
<td>8.38</td>
<td>97 (44.5%)</td>
<td>70 (32.1%)</td>
<td>102</td>
<td>11</td>
<td>4</td>
<td>2</td>
<td>25</td>
<td>0</td>
<td>75 (34.4%)</td>
</tr>
<tr>
<td></td>
<td>165</td>
<td>9.47</td>
<td>69 (41.8%)</td>
<td>79 (47.9%)</td>
<td>57</td>
<td>8</td>
<td>3</td>
<td>0</td>
<td>15</td>
<td>0</td>
<td>49 (29.7%)</td>
</tr>
<tr>
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<td>206</td>
<td>10.41</td>
<td>101 (49%)</td>
<td>87 (42.2%)</td>
<td>69</td>
<td>20</td>
<td>3</td>
<td>0</td>
<td>15</td>
<td>0</td>
<td>60 (29.1%)</td>
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<tr>
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<td>175</td>
<td>11.46</td>
<td>77 (44%)</td>
<td>79 (45.1%)</td>
<td>52</td>
<td>15</td>
<td>2</td>
<td>0</td>
<td>23</td>
<td>0</td>
<td>49 (28%)</td>
</tr>
<tr>
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<td>156</td>
<td>12.44</td>
<td>71 (45.5%)</td>
<td>55 (35.3%)</td>
<td>74</td>
<td>12</td>
<td>1</td>
<td>0</td>
<td>23</td>
<td>7</td>
<td>33 (21.2%)</td>
</tr>
</tbody>
</table>

Not reported

Sample Items for Orthographic-choice and Word-likeness tasks

- 5 exemplars of each of the following patterns represented on both orthographic-choice and word-likeness tasks:
  - Legal vowel doublet ‘ee’
    - trea – tree
    - chiit - cheen
  - Legal vowel doublet ‘oo’
    - brook – brouk
    - thood - thuud
  - Legal spellings of syllabic /l/
    - muscel – muscle
    - sevel – sevl
  - Rule for spelling /dʒ/ as ‘ge’ or ‘dge’
    - ledge – leadge
    - spedge - speedge
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- Legal spellings of syllabic /r/
  - smirk – smerk
  - flerth - flrth
- Grapheme rules for representing /ŋk/ as ‘nk’ or ‘nc’
  - shrank - shranc
  - grangk - grank

- 1 of each of the following represented on orthographic-choice task:
  - Legal spellings of /æ/, /ɪ/, /ɑ/, /ɛ/, /ʌ/
  - wagon- waugon
  - built – bilt
  - hospital – haspital
  - pheasant – phesant
  - accompany - accompany

- 1 of each of the following patterns represented on word-likeness task:
  - Spelling of /ns/ as ‘nce’ after ‘a, o, u’
    - ronce - ronse
  - Positional rules for ‘ck, k, c’
    - yeek - yeeck
  - ‘tch’ rule for long vs. short vowels
    - plotch – ploch
  - Grapheme rules for /kr/ vs. /rk/
    - krep - crep
  - Grapheme rules for representing /mf, nθ, ntʃ/
    - bismamf - bismamph

Number of Participants who performed at Ceiling on Orthographic-choice and Word-Likeness Tasks by Grade

Orthographic-Choice

Grade 1: 6
Grade 2: 7
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Grade 3: 3
Grade 4: 3
Grade 5: 0
Grade 6: 0

Word-likeness
Grade 1: 0
Grade 2: 0
Grade 3: 2
Grade 4: 1
Grade 5: 4
Grade 6: 2