

Appendix A: POMplexity for Roots and Affixes Exemplars for Phonological, Orthographic, and Morphological Errors

Phonology	Orthography	Morphology
Plausible/Syncope	Minor	Plausible
<i>Root</i> buffilo/buffalo butuful/beautiful to/too <i>Affix</i> belled/belt mysteries/mysterious walkt/walked	<i>Root</i> china/China a long/along it's/its <i>Affix</i> vacaiton/vacation singnig/singin girls/girls'	<i>Root</i> runing/running mysterys/mysteries vacaiton/vacation <i>Affix</i> reversable/reversible radiant/radiant singnig/singin
Substitution or Transposition	Legal Error: Vowel	Homophone Substitution
<i>Root</i> brid/bird swin/swim mision/mission <i>Affix</i> singong/singing hopin/hoping	<i>Root</i> are/our leve/leave captin/captain <i>Affix</i> wakeng/waking laborotory/laboratory	<i>Root</i> sumwhere/somewhere a long/along knowbody/nobody <i>Affix</i> mysteries/mysterious avoidance/avoidance
Omission	Legal Error: Consonant	Whole Morpheme Substitution
<i>Root</i> supri s ed/surprised dint/didn't <i>Affix</i> singng/singing hatchie/hatching	<i>Root</i> supri s ed/surprised grandfa t er/grandfather <i>Affix</i> watchin/watching walket/walked	<i>Root</i> an/and plant/planet <i>Affix</i> probaby/probably nuculier/nuclear
Addition	Legal Error: Vowel & Consonant	Non-morpheme Substitution
<i>Root</i> nuculier/nuclear monsteris/monstrous <i>Affix</i> waitded/waited hidisng/hiding	<i>Root</i> sewle/seal wad/would <i>Affix</i> rune g /running vacashun/vacation	<i>Root</i> cachty/actually bindfold/blindfold <i>Affix</i> hadisng/hiding probabny/probably
Multiple Phonological	Illegal Grapheme Error	Omitted Morpheme
<i>Root</i> bl l sing/balancing seeing/singing <i>Affix</i> singngn/singing hatchiem/hatching	<i>Root</i> drrown/drown bulld/build <i>Affix</i> singng/singing walktt/walked	<i>Root</i> base_/baseball he_/he's <i>Affix</i> walk_/walked hop_/hoping

APPENDIX B: RECORDING FORM FOR POMPLEXITY FOR ROOTS AND AFFIXES Administration and Scoring

1. Collect a writing sample.
2. Record misspelled words and their targets in appropriate section of the Coding Protocol Form according to the morphological word type: A (Monomorphemic Words), B (Compound/Contracted words), C (Inflected Words), or D (Derived Words).
3. Parse misspelled words with more than one morpheme into separate morphemes using a slash.
4. For each morpheme of a misspelled word, determine:
 - the phonological categorical ranking and record in the corresponding P column.
 - the orthographic categorical ranking and record in the corresponding O column.
 - the morphological categorical ranking and record in the corresponding M column.
5. After completing error analysis, total the total number of errors within each linguistic category and enter in the Summary Form.

To calculate frequency of a categorical error, divide the frequency of occurrence of each error by the total number of errors in that category

SUMMARY FORM

	0	1	2	3	4	5	6
Phonology	Correct	Plausible	Substitution	Omission	Addition	Multiple	Omitted Bound
Monomorphemic ¹							
Compound & Contracted ²							
Roots – Multimorphemic ³							
Affixes – Multimorphemic ⁴							
Orthography	Correct	Minor	Vowel	Consonant	Vowel & Consonant	Illegal	Omitted Bound
Monomorphemic ¹							
Compound & Contracted ²							
Roots – Multimorphemic ³							
Affixes – Multimorphemic ⁴							
Morphology	Correct	Plausible	Homophone	Morpheme	Non-morpheme	Omitted Bound	
Monomorphemic ¹							
Compound & Contracted ²							
Roots – Multimorphemic ³							
Affixes – Multimorphemic ⁴							

1. Total number of errors from section A of Coding Protocol 2. Total number of errors from first and second morphemes from section B of Coding Protocol 3. Total number of errors from roots of sections C and D of Coding Protocol 4. Total number of errors from Affixes from sections C and D of Coding Protocol