

**Supplemental Material S4.** Frequency table for the number and proportion of each fine-grained spelling error type across grades in dictation.

WIAT17 - Contingency table for the proportion for each fine grained type of error per year group

Cell Contents						
	Count					
	Expected values					
	Chi-square contribution					
	Row Percent					
	Column Percent					
	Total Percent					
	Std Residual					
Total Observations in Table: 1646						
SpellErr17\$ErrType	SpellErr17\$Class_num 1	2	3	4	5	Row Total
MORACCORD	8	14	6	9	4	41
	14.522	17.212	3.163	3.786	2.317	
	2.929	0.599	2.543	7.180	1.223	
	19.512%	34.146%	14.634%	21.951%	9.756%	2.491%
	1.372%	2.026%	4.724%	5.921%	4.301%	
	0.486%	0.851%	0.365%	0.547%	0.243%	
	-1.711	-0.774	1.595	2.680	1.106	
MORCOART	32	50	0	5	1	88
	31.169	36.943	6.790	8.126	4.972	
	0.022	4.615	6.790	1.203	3.173	
	36.364%	56.818%	0.000%	5.682%	1.136%	5.346%
	5.489%	7.236%	0.000%	3.289%	1.075%	
	1.944%	3.038%	0.000%	0.304%	0.061%	
	0.149	2.148	-2.606	-1.097	-1.781	
MORDER	24	32	6	3	4	69
	24.439	28.967	5.324	6.372	3.899	

	0.008 34.783% 4.117% 1.458% -0.089	0.318 46.377% 4.631% 1.944% 0.564	0.086 8.696% 4.724% 0.365% 0.293	1.784 4.348% 1.974% 0.182% -1.336	0.003 5.797% 4.301% 0.243% 0.051	4.192%	
MORHOM	8 8.501 0.029 33.333% 1.372% 0.486% -0.172	12 10.075 0.368 50.000% 1.737% 0.729% 0.606	0 1.852 1.852 0.000% 0.000% 0.000% -1.361	3 2.216 0.277 12.500% 1.974% 0.182% 0.526	1 1.356 0.093 4.167% 1.075% 0.061% -0.306	24   1.458%	
MORVERB	26 24.439 0.100 37.681% 4.460% 1.580% 0.316	18 28.967 4.152 26.087% 2.605% 1.094% -2.038	4 5.324 0.329 5.797% 3.150% 0.243% -0.574	11 6.372 3.362 15.942% 7.237% 0.668% 1.833	10 3.899 9.549 14.493% 10.753% 0.608% 3.090	69   4.192%	
NC	2 3.188 0.443 22.222% 0.343% 0.122% -0.665	3 3.778 0.160 33.333% 0.434% 0.182% -0.400	2 0.694 2.455 22.222% 1.575% 0.122% 1.567	1 0.831 0.034 11.111% 0.658% 0.061% 0.185	1 0.509 0.475 11.111% 1.075% 0.061% 0.689	9   0.547%	
ORTHMUET	146 143.802 0.034 35.961% 25.043% 8.870% 0.183	173 170.441 0.038 42.611% 25.036% 10.510% 0.196	28 31.326 0.353 6.897% 22.047% 1.701% -0.594	39 37.492 0.061 9.606% 25.658% 2.369% 0.246	20 22.939 0.377 4.926% 21.505% 1.215% -0.614	406   24.666%	
ORTHOA	34 42.503 1.701	46 50.377 0.380	13 9.259 1.512	14 11.081 0.769	13 6.780 5.706	120	

	28.333%	38.333%	10.833%	11.667%	10.833%	7.290%
	5.832%	6.657%	10.236%	9.211%	13.978%	
	2.066%	2.795%	0.790%	0.851%	0.790%	
	-1.304	-0.617	1.230	0.877	2.389	
ORTHSIGNE	24	45	9	12	11	101
	35.773	42.400	7.793	9.327	5.707	
	3.875	0.159	0.187	0.766	4.910	
	23.762%	44.554%	8.911%	11.881%	10.891%	6.136%
	4.117%	6.512%	7.087%	7.895%	11.828%	
	1.458%	2.734%	0.547%	0.729%	0.668%	
	-1.968	0.399	0.432	0.875	2.216	
ORTHSUB	143	158	37	28	19	385
	136.364	161.625	29.705	35.553	21.753	
	0.323	0.081	1.791	1.605	0.348	
	37.143%	41.039%	9.610%	7.273%	4.935%	23.390%
	24.528%	22.865%	29.134%	18.421%	20.430%	
	8.688%	9.599%	2.248%	1.701%	1.154%	
	0.568	-0.285	1.338	-1.267	-0.590	
PHONCLUSTER	16	15	3	5	0	39
	13.813	16.372	3.009	3.601	2.204	
	0.346	0.115	0.000	0.543	2.204	
	41.026%	38.462%	7.692%	12.821%	0.000%	2.369%
	2.744%	2.171%	2.362%	3.289%	0.000%	
	0.972%	0.911%	0.182%	0.304%	0.000%	
	0.588	-0.339	-0.005	0.737	-1.484	
PHONGRAPHCO	52	29	1	2	4	88
	31.169	36.943	6.790	8.126	4.972	
	13.922	1.708	4.937	4.619	0.190	
	59.091%	32.955%	1.136%	2.273%	4.545%	5.346%
	8.919%	4.197%	0.787%	1.316%	4.301%	
	3.159%	1.762%	0.061%	0.122%	0.243%	
	3.731	-1.307	-2.222	-2.149	-0.436	
PHONOAII	39	47	8	14	4	112
	39.670	47.018	8.642	10.343	6.328	
	0.011	0.000	0.048	1.293	0.856	
	34.821%	41.964%	7.143%	12.500%	3.571%	6.804%

	6.690%	6.802%	6.299%	9.211%	4.301%	
	2.369%	2.855%	0.486%	0.851%	0.243%	
	-0.106	-0.003	-0.218	1.137	-0.925	
PHONSUB	29	49	10	6	1	95
	33.648	39.882	7.330	8.773	5.368	
	0.642	2.085	0.973	0.876	3.554	
	30.526%	51.579%	10.526%	6.316%	1.053%	5.772%
	4.974%	7.091%	7.874%	3.947%	1.075%	
	1.762%	2.977%	0.608%	0.365%	0.061%	
	-0.801	1.444	0.986	-0.936	-1.885	
Column Total	583	691	127	152	93	1646
	35.419%	41.981%	7.716%	9.235%	5.650%	

Statistics for All Table Factors

Pearson's Chi-squared test  
 Chi<sup>2</sup> = 120.0524      d.f. = 52      p = 2.659098e-07