LINKING STUDY: THE RELATIONSHIP BETWEEN PERFORMANCE LEVELS ON THE READING PROFICIENCY TESTS IN ENGLISH AND THE TEXAS ASSESSMENT OF KNOWLEDGE AND SKILLS

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Background

The purpose of this linking study is to add to the body of validity evidence gathered by the state to examine the relationship between RPTE and TAKS performance levels. The current analyses were used to locate score points on the Reading Proficiency Tests in English (RPTE) scale for each grade that are concordant with the Texas Assessment of Knowledge and Skills (TAKS) "Met Standard" and 'Commended Performance" scaled scores. Data analyses were conducted using a common-persons design. Students who tested with both RPTE and TAKS Reading/ELA in the spring of 2005 were used for the analyses.

RPTE and TAKS assess the content standards of the state's reading curriculum. RPTE is developed for English language learners and assesses reading in a way that takes second language acquisition into account. Each RPTE reading selection and test question is written to reflect one of four levels, or degrees, of linguistic accommodation. The levels of accommodation reflect the diminishing linguistic support that English language learners (ELLs) need as they learn more and more English. Each successive RPTE performance level (Beginning, Intermediate, Advanced, and Advanced High) indicates the ability to demonstrate the state's reading standards on texts that are less and less linguistically accommodated and more and more like texts written for native English-speaking students. TAKS reading tests, on the other hand, measure the state's reading content standards without linguistic accommodations for ELLs. Therefore, the TAKS and RPTE tests assess the TEKS curriculum in slightly different ways. As such, care must be taken when making interpretations about statistical links between the two tests.

<u>Sample</u>

Every spring a large percentage of the LEP student population takes both the RPTE and TAKS reading/English language arts tests. These are the students included in this linking study. LEP students who do <u>not</u> take both tests include:

1. LEP students in Grades 3–6 who take TAKS in Spanish rather than English for up to three school years (These students take TAKS in Spanish and RPTE.)

- 2. LEP students served through special education who qualify to take the State-Developed Alternative Assessment (SDAA II) (These students take SDAA II and RPTE.)
- 3. a small percentage of recent immigrant LEP students who qualify for a limited English proficiency exemption from TAKS during their first, second, or third school year in the U.S. (These students take RPTE only.)

The mean RPTE raw and scaled scores for each grade are shown in Table 1 below for both the study sample (left portion of the table) and the full LEP population (right portion of the table). As can be seen in the table, the students taking both TAKS in English and RPTE in the same year have higher average scaled scores and raw scores and less variability in scores (i.e., lower score standard deviations) than the full LEP population. The higher average proficiency of these students can be expected to result in more accurate linkings at the higher RPTE scale scores, the range of scores hypothesized to contain the TAKS "Met Standards" and "Commended Performance" levels.

Table 1. Mean Spring 2005 RPTE Raw Scores and Scale Scores for Study Sample and Full LEP Population

Grade	Study Sample				Full LEP Population		
	N	RS (M,SD)	SS(M,SD)	N	RS(M,SD)	SS(M,SD)	
3	41,547	48.99(6.05)	746.20(48.99)	77,089	44.65(9.90)	712.97(78.55)	
4	25,495	48.94(5.44)	787.25(56.76)	51,871	44.18(9.89)	750.65(76.67)	
5	23,638	50.49(4.75)	806.25(57.80)	42,544	46.11(9.48)	769.71(79.21)	
6	23,876	49.27(5.83)	801.41(56.82)	36,845	45.57(9.48)	774.06(76.23)	
7	16,945	49.11(6.21)	801.52(60.31)	28,617	45.14(9.69)	771.78(75.31)	
8	13,885	50.27(5.82)	814.60(61.25)	24,635	46.14(9.56)	781.69(77.45)	
9	16,726	48.49(8.33)	790.34(62.28)	31,022	43.86(11.44)	760.78(74.85)	
10	12,138	49.92(7.65)	802.22(62.53)	18,296	47.56(9.41)	785.70(69.00)	
11	9,530	51.26(6.90)	814.11(61.51)	13,555	49.63(8.61)	802.30(68.26)	

Note. The N represents the number of students, RS represents raw scores, M represents mean, SD represents standard deviation, and SS represent scale scores. Grade 12 students are not included in the study because only TAKS exit level retesters take the test again in Grade 12.

Method

Equating, the strongest form of linking, can be established only when two tests 1) measure the same content according to the same test and statistical specifications, 2) target very similar populations, 3) are administered under similar conditions such that the constructs

measured are not differentially affected, 4) share common measurement goals (Kolen & Brennan, 2004), and 5) are equally reliable (Dorans & Holland, 2000). For tests with lesser degrees of similarity, only weaker forms of linking are meaningful, such as calibration, concordance, projection, or moderation (Mislevy, 1992; Linn, 1993; Dorans, 2000; Pommerich, Hanson, Harris, & Sconing, 2004). The linking study here should be interpreted as a concordance analysis rather than a statistical equating.

In order to obtain the RPTE scores most comparable to the TAKS "Met the Standard' and "Commended Performance" scores, the following steps were taken:

Reported scaled scores were used to calculate an RPTE ability estimate (θ) and a TAKS
ability estimate for each student (θ) by reversing the corresponding θ to scaled score
transformations. The transformations are listed below for each TAKS reading/ELA
assessment.

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Gr 3 Reading SS = 125.89173(\theta) + 1992.23668

Gr 4 Reading SS = 129.42192(\theta) + 1996.07420

Gr 5 Reading SS = 155.92516(\theta) + 1954.52183

Gr 6 Reading SS = 166.38935(\theta) + 1988.85191

Gr 7 Reading SS = 139.08206(\theta) + 1964.53408

Gr 8 Reading SS = 153.76730(\theta) + 1948.53921

Gr 9 Reading SS = 123.21847(\theta) + 1944.27650

Gr 10 ELA SS = 97.06539(\theta) + 1983.74478

Gr 11 ELA SS = 113.48162(\theta) + 2017.62369
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The scale score transformation equation for each RPTE assessment is:

RPTE SS =
$$48.00(\theta) + 575.00$$

- 2. A difference is computed as the average TAKS ability estimate subtracted from the average RPTE ability estimate. This difference, or constant, represents a measure of the difference between the two scales.
- 3. This constant was then subtracted from each RPTE ability estimate to yield an RPTE ability estimate for each student on the TAKS ability scale.

- 4. The RPTE ability estimates on the TAKS ability scale were then converted to the TAKS scale by applying the TAKS *a* and *b* scaling constants.
- Once the RPTE ability estimates were converted to the TAKS scale, the RPTE raw scores were then associated with the regular RPTE scale scores and RPTE scale scores on the TAKS scale.
- 6. Since the TAKS proficiency cut point is 2100, the RPTE scale scores on the TAKS scale that were closest to (but not larger than) 2100 and their corresponding raw scores were defined as the most comparable proficiency scores.
- 7. Similarly, since the TAKS "Commended Performance" cut point is 2400, the RPTE scale scores on the TAKS scale that were closest to (but not larger than) 2400 and their corresponding raw scores were defined as the most comparable "Commended Performance" scores.

Results

Results of this study indicate that for every grade level, points corresponding to the TAKS "Met Standard" and "Commended Performance" levels were able to be located on the RPTE scale. The point on the RPTE scale corresponding to the TAKS "Met Standard" cut was located either within the Advanced or Advanced High proficiency level. For many of the grade levels, the TAKS equivalency score fell near the border between the two levels.

The tables on the following pages show the TAKS reading scaled scores that correspond to each RPTE raw and scaled score. The TAKS "Met Standard" and "Commended" cut scores are in boldface type for each grade. For example, at grade 3, an RPTE raw score of 45 and scaled score of 695 is most comparable to a TAKS reading "Met Standard" cut score of 2100.

Conclusions

These results add to the state's existing body of validity evidence about the statistical relationship between the RPTE and TAKS performance levels. The fact that these scores are near the Advanced/Advanced High RPTE cuts is consistent with the fact that RPTE reading materials written for the Advanced and Advanced High levels of the test have the fewest linguistic accommodations and are most like reading materials written for native English speakers.

The findings from this study provide additional statistical evidence of the relationship between RPTE and TAKS. In conjunction with this study, the analyses below help inform policy questions about the use of RPTE as an Adequate Yearly Progress (AYP) measure for immigrant students during their initial years in U.S. schools.

- Analyses A, B, and C (relating to the RPTE incremental progress AYP standard) in Appendix 26 of the 2004-2005 Technical Digest
- TAKS Scale Score Performance by RPTE Proficiency Rating for Students Who Participated in Both Assessments (Chapter 4 of the 2003-2004, 2004-2005, and 2005-2006 Technical Digest)

References

- Dorans, N. J., & Holland, P. W. (2000). Population invariance and the equatability of tests: Basic theory and the linear case. <u>Journal of Educational Measurement</u>, 37, 281-306.
- Kolen, M. J., & Brennan, L. B. (2004). <u>Test equating, scaling, and linking: Methods and practices</u>. New York: Springer-Verlag.

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- Linn, R. L. (1993). Linking results of distinct assessments. <u>Applied Measurement in Education</u>, 6, 83-102.
- Mislevy, R. J. (1992). Linking educational assessments: Concepts, issues, methods, and prospects. Princeton, NJ: ETS Policy Information Center.
- Pommerich, M., Hanson, B. A., Harris, D. J., & Sconing, J. A. (2004). Issues in conducting linkages between distinct tests. <u>Applied Psychological Measurement</u>, 28, 247-273.

Grade 3 Results						
RPTE Raw Score	RPTE Scale Score	RPTE Scale Score on TAKS Scale	RPTE Proficiency Level	Rounded Cut Score	TAKS Proficiency Level	
0	316	1087	Beginning			
2	400	1307	Beginning			
8	480	1517	Beginning			
10	496	1559	Beginning			
11	503	1578	Beginning			
12	510	1596	Beginning			
13	517	1614	Beginning			
14	523	1630	Beginning			
15	529	1646	Beginning			
16	535	1662	Beginning			
17	541	1677	Beginning			
18	546	1690	Beginning			
19	552	1706	Beginning			
20	558	1722	Beginning			
21	563	1735	Beginning			
22	568	1748	Beginning			
23	574	1764	Beginning	•		
24	579	1777	Beginning	•		
25	584	1790	Beginning	•		
26	589	1803	Beginning	•		
27	595	1819	Beginning	•		
28	600	1832	Beginning	•		
29	605	1845	Beginning	•		
30	610	1858	Beginning	•		
31	615	1871	Beginning			
32	620	1884	Intermediate			
33	626	1900	Intermediate	-		
34	631	1913	Intermediate	-		
35	636	1926	Intermediate			
36	641	1940	Intermediate	•		
37	647	1955	Intermediate			
38	652	1968	Intermediate			
39	658	1984	Intermediate			
40	664	2000	Intermediate			
41	670	2016	Intermediate			
42	676	2031	Intermediate			
43	682	2047	Advanced			
44	688	2063	Advanced			
45	695	2081	Advanced	2100	Met Std	
46	703	2102	Advanced	•		
47	710	2121	Advanced			
48	719	2144	Advanced			
49	728	2168	Advanced High			
50	738	2194	Advanced High			
51	749	2223	Advanced High			
52	763	2260	Advanced High			
53	780	2304	Advanced High			
54	802	2362	Advanced High	2400	Commended	
55	838	2456	Advanced High			
56	888	2587	Advanced High			

	Grade 4 Results							
RPTE Raw Score	RPTE Scale Score	RPTE Scale Score on TAKS Scale	RPTE Proficiency Level	Rounded Cut Score	TAKS Proficiency Level			
0	341	919	Beginning					
7	503	1355	Beginning					
11	538	1450	Beginning					
12	545	1469	Beginning					
13	552	1488	Beginning	•				
14	559	1506	Beginning	•				
15	566	1525	Beginning					
16	572	1541	Beginning					
17	578	1558	Beginning					
18	584	1574	Beginning					
19	590	1590	Beginning					
20	596	1606	Beginning					
21	602	1622	Beginning					
22	608	1639	Beginning					
23	613	1652	Beginning					
24	619	1668	Beginning					
25	624	1682	Beginning					
26	629	1695	Beginning					
27	635	1711	Beginning					
28	640	1725	Beginning					
29	646	1741	Beginning					
30	651	1754	Beginning					
31	656	1768	Beginning					
32	662	1784	Intermediate					
33	667	1798	Intermediate					
34	672	1811	Intermediate					
35	678	1827	Intermediate					
36	684	1843	Intermediate					
37	689	1857	Intermediate					
38	695	1873	Intermediate					
39	701	1889	Intermediate					
40	707	1905	Intermediate					
41	713	1922	Intermediate					
42	720	1941	Advanced					
43	726	1957	Advanced					
44	733	1976	Advanced					
45	740	1994	Advanced					
46	748	2016	Advanced					
47	756	2038	Advanced					
48	765	2062	Advanced					
49	774	2086	Advanced	2100	Met Std			
50	784	2113	Advanced					
51	790	2129	Advanced High					
52	810	2183	Advanced High	•				
53	826	2226	Advanced High	•				
54	849	2288	Advanced High	•				
55	885	2385	Advanced High	2400	Commended			
56	934	2518	Advanced High					
20	,,,,	2310	114.1111004 111611	•				

Grade 5 Results						
RPTE Raw Score	RPTE Scale Score	RPTE Scale Score on TAKS Scale	RPTE Proficiency Level	Rounded Cut Score	TAKS Proficiency Level	
0	341	534	Beginning			
12	545	1197	Beginning			
16	572	1284	Beginning			
17	578	1304	Beginning			
18	584	1323	Beginning			
19	590	1343	Beginning			
20	596	1362	Beginning			
21	602	1382	Beginning			
22	608	1401	Beginning			
23	613	1418	Beginning			
24	619	1437	Beginning			
25	624	1453	Beginning			
26	629	1470	Beginning			
27	635	1489	Beginning			
28	640	1505	Beginning			
29	646	1525	Beginning			
30	651	1541	Intermediate			
31	656	1557	Intermediate			
32	662	1577	Intermediate			
33	667	1593	Intermediate			
34	672	1609	Intermediate			
35	678	1629	Intermediate			
36	684	1648	Intermediate			
37	689	1664	Intermediate			
38	695	1684	Intermediate			
39	701	1703	Intermediate			
40	707	1723	Advanced			
41	713	1742	Advanced			
42	720	1765	Advanced			
43	726	1785	Advanced			
44	733	1807	Advanced			
45	740	1830	Advanced			
46	748	1856	Advanced			
47	756	1882	Advanced			
48	765	1911	Advanced			
49	774	1941	Advanced High			
50	784	1973	Advanced High			
51	790	1993	Advanced High			
52	810	2058	Advanced High	2100	Met Std	
53	826	2109	Advanced High			
54	849	2184	Advanced High			
55	885	2301	Advanced High	2400	Commended	
56	934	2460	Advanced High			

Score Score TAKS Scale Level Score 0 357 544 Beginning 3 466 922 Beginning 7 521 1112 Beginning 9 539 1175 Beginning 11 555 1230 Beginning 12 563 1258 Beginning 13 570 1282 Beginning 14 576 1303 Beginning 15 583 1327 Beginning 16 589 1348 Beginning 17 595 1369 Beginning 18 601 1390 Beginning	Proficiency Level
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16 589 1348 Beginning 17 595 1369 Beginning 18 601 1390 Beginning	
17 595 1369 Beginning 18 601 1390 Beginning	
18 601 1390 Beginning	
19 607 1411 Beginning	
20 613 1431 Beginning	
21 619 1452 Beginning	
22 625 1473 Beginning	
23 630 1490 Beginning	
24 636 1511 Beginning	
25 641 1528 Beginning	
26 646 1546 Beginning	
27 652 1567 Beginning	
28 657 1584 Beginning	
29 663 1605 Beginning	
30 668 1622 Intermediate 31 673 1639 Intermediate	
34 689 1695 Intermediate	
35 695 1716 Intermediate	
36 700 1733 Intermediate	
37 706 1754 Intermediate	
38 712 1775 Intermediate	
39 717 1792 Intermediate	
40 723 1813 Advanced	
41 729 1833 Advanced	
42 735 1854 Advanced	
43 741 1875 Advanced	
44 748 1899 Advanced	
45 755 1924 Advanced	
46 762 1948 Advanced	
47 769 1972 Advanced	
48 777 2000 Advanced	
49 785 2028 Advanced	
50 794 2059 Advanced	
51 804 2093 Advanced 2100 M	Met Std
52 816 2135 Advanced High	
53 829 2180 Advanced High	
54 845 2236 Advanced High	
	mmended
56 903 2437 Advanced High	
57 952 2606 Advanced High	

		Grad	e 8 Results		
RPTE Raw Score	RPTE Scale Score	RPTE Scale Score on TAKS Scale	RPTE Proficiency Level	Rounded Cut Score	TAKS Proficiency Level
0	357	539	Beginning		
2	443	814	Beginning		
7	521	1064	Beginning		
12	563	1199	Beginning		
14	576	1241	Beginning		
16	589	1282	Beginning		
17	595	1301	Beginning		
18	601	1321	Beginning		
19	607	1340	Beginning		
20	613	1359	Beginning		
21	619	1378	Beginning		
22	625	1398	Beginning		
23	630	1414	Beginning		
24	636	1433	Beginning		
25	641	1449	Beginning		
26	646	1465	Beginning		
27	652	1484	Beginning		
28	657	1500	Beginning		
29	663	1519	Beginning		
30	668	1535	Intermediate		
31	673	1551	Intermediate		
32	679	1571	Intermediate		
33	684	1587	Intermediate		
34	689	1603	Intermediate		
35	695	1622	Intermediate		
36	700	1638	Intermediate		
37	706	1657	Intermediate		
38	712	1676	Intermediate		
39	717	1692	Intermediate		
40	723	1711	Advanced		
41	729	1731	Advanced		
42	735	1750	Advanced		
43	741	1769	Advanced		
44	748	1792	Advanced		
45	755	1814	Advanced		
46	762	1836	Advanced		
47	769	1859	Advanced		
48	777	1884	Advanced		
49	785	1910	Advanced		
50	794	1939	Advanced		
51	804	1971	Advanced		
52	816	2009	Advanced High		
53	829	2051	Advanced High	2100	Met Std
54	845	2102	Advanced High		
55	867	2173	Advanced High		
56	903	2288	Advanced High	2400	Commended
57	952	2445	Advanced High		

	Grade 9 Results							
RPTE Raw	RPTE Scale	RPTE Scale Score on	RPTE Proficiency	Rounded Cut	TAKS Proficiency			
Score	Score	TAKS Scale	Level	Score	Level			
0	387	982	Beginning					
6	534	1359	Beginning					
10	568	1446	Beginning					
11	575	1464	Beginning					
12	581	1480	Beginning					
13	588	1498	Beginning					
14	594	1513	Beginning					
15	600	1528	Beginning					
16	606	1544	Beginning					
17	611	1557	Beginning					
18	616	1569	Beginning					
19	622	1585	Beginning					
20	627	1598	Beginning					
21	632	1611	Beginning					
22	637	1623	Beginning					
23	642	1636	Beginning					
24	647	1649	Beginning					
25	652	1662	Beginning					
26	657	1675	Beginning					
27	662	1688	Beginning					
28	667	1700	Beginning					
29	671	1711	Beginning					
30	676	1723	Beginning					
31	681	1736	Beginning					
32	686	1749	Beginning					
33	691	1762	Beginning					
34	696	1775	Intermediate					
35	701	1788	Intermediate					
36	706	1801	Intermediate					
37	711	1813	Intermediate					
38	716	1826	Intermediate					
39	721	1839	Intermediate					
40	726	1852	Intermediate					
41	732	1867	Intermediate					
42	737	1880	Intermediate					
43	743	1895	Intermediate					
44	749	1911	Advanced					
45	755	1926	Advanced					
46	761	1942	Advanced					
47	768	1960	Advanced					
48	774	1975	Advanced					
49	781	1993	Advanced					
50	789	2014	Advanced					
51	797	2034	Advanced					
52	805	2055	Advanced					
53	815	2080	Advanced	2100	Met Std			
54	825	2106	Advanced					
55	830	2119	Advanced High					
56	850	2170	Advanced High					
57	867	2214	Advanced High					
58	889	2270	Advanced High					
59	925	2363	Advanced High	2400	Commended			
60	974	2488	Advanced High					

	Grade 10 Results							
RPTE Raw Score	RPTE Scale Score	RPTE Scale Score on TAKS Scale	RPTE Proficiency Level	Rounded Cut Score	TAKS Proficiency Level			
0	387	1196	Beginning					
9	560	1546	Beginning					
10	568	1562	Beginning					
11	575	1576	Beginning					
12	581	1588	Beginning					
13	588	1603	Beginning					
15	600	1627	Beginning					
16	606	1639	Beginning					
17	611	1649	Beginning					
18	616	1659	Beginning					
19	622	1671	Beginning					
20	627	1681	Beginning					
21	632	1692	Beginning					
22	637	1702	Beginning					
23	642	1712	Beginning					
24	647	1722	Beginning					
25	652	1732	Beginning					
26	657	1742	Beginning					
27	662	1752	Beginning					
28	667	1762	Beginning					
29	671	1770	Beginning					
30	676	1781	Beginning					
31	681	1791	Beginning					
32	686	1801	Beginning					
33	691	1811	Beginning					
34	696	1821	Intermediate					
35	701	1831	Intermediate					
36	706	1841	Intermediate					
37	711	1851	Intermediate					
38	716	1861	Intermediate					
39	721	1872	Intermediate					
40	726	1882	Intermediate					
41	732	1894	Intermediate					
42	737	1904	Intermediate					
43	743	1916	Intermediate					
44	749	1928	Advanced					
45	755	1940	Advanced					
46	761	1952	Advanced					
47	768	1967	Advanced					
48	774	1979	Advanced					
49	781	1993	Advanced					
50	789	2009	Advanced					
51	797	2025	Advanced					
52	805	2041	Advanced					
53	815	2062	Advanced					
54	825	2082	Advanced	2100	Met Std			
55	830	2092	Advanced High	2100	nici ota			
56	850 850	2132	Advanced High					
56 57	850 867	2167	Advanced High					
58	889	2211	Advanced High					
58 59		2284						
	925 97 4		Advanced High	2/00	Commanded			
60	974	2383	Advanced High	2400	Commended			

		Grade	11 Results		
RPTE Raw Score	RPTE Scale Score	RPTE Scale Score on TAKS Scale	RPTE Proficiency Level	Rounded Cut Score	TAKS Proficiency Level
10	568	1487	Beginning		
11	575	1504	Beginning		
13	588	1534	Beginning		
14	594	1549	Beginning		
15	600	1563	Beginning		
16	606	1577	Beginning		
17	611	1589	Beginning		
18	616	1601	Beginning		
19	622	1615	Beginning		
20	627	1627	Beginning		
21	632	1638	Beginning		
22	637	1650	Beginning		
23	642	1662	Beginning		
			Beginning		
24	647	1674			
25	652	1686	Beginning		
26	657	1698	Beginning		
27	662	1709	Beginning		
28	667	1721	Beginning		
29	671	1731	Beginning		
30	676	1742	Beginning		
31	681	1754	Beginning		
32	686	1766	Beginning		
33	691	1778	Beginning		
34	696	1790	Intermediate		
35	701	1802	Intermediate		
36	706	1813	Intermediate		
37	711	1825	Intermediate		
38	716	1837	Intermediate		
39	721	1849	Intermediate		
40	726	1861	Intermediate		
41	732	1875	Intermediate		
42	737	1887	Intermediate		
43	743	1901	Intermediate		
44	749	1915	Advanced		
45	755	1929	Advanced		
46	761	1943	Advanced		
47	768	1943	Advanced		
			Advanced		
48	774 781	1974	Advanced		
49 50	781 780	1991			
50	789 707	2010	Advanced		
51	797	2029	Advanced		
52	805	2047	Advanced		
53	815	2071	Advanced	2400	** * *
54	825	2095	Advanced	2100	Met Std
55	830	2107	Advanced High		
56	850	2154	Advanced High		
57	867	2194	Advanced High		
58	889	2246	Advanced High		
50	925	2331	Advanced High	2400	Commended
59					