

Appendix C

Summary of HLM Model Results for Student Achievement

Exhibit Table 1

6th Grade Student Achievement, GSV Scores:– Summary of Model Results

Fixed Effects					
Effect	Estimate	Standard Error	df	t Value	Pr > t
Intercept	430.51	2.8241	11	152.44	<.0001
School: Percent Free & Reduced Lunch for Concurrent Year, Centered by grand mean for middle schools	-0.3886	0.1570	565	-2.47	0.0136
Fall GSV scores, Centered by school mean	0.6650	0.06442	565	10.32	<.0001
Student: Intervention	1.9252	1.4071	565	1.37	0.1718
Student: Not in Special Ed	11.3707	2.5558	565	4.45	<.0001
Student: Read/Write Special Ed	1.2062	2.9307	565	0.41	0.6808
Random Effects					
Variance Components	Estimate	ICC			
Level-2 Random Intercept	School	20.5560	0.0679		
Level-1 Residual	Student	282.36			

Exhibit Table 2

9th Grade Student Achievement, GSV Scores:— Summary of Model Results

Fixed Effects					
Effect	Estimate	Standard Error	df	t Value	Pr > t
Intercept	456.31	2.6393	9	172.89	<.0001
School: Reading KCCT at base year (2006), Centered by grand mean of high schools	0.2245	0.1229	661	1.83	0.0682
School: Percent of Free & Reduced Lunch Students, Centered by grand mean	-0.2930	0.1069	661	-2.74	0.0063
Fall NCE scores, Centered by school	0.6830	0.06761	661	10.10	<.0001
Student: Intervention	1.8941	1.2719	661	1.49	0.1369
Student: White student	5.1363	2.0521	661	2.50	0.0126
Student: Not in Special Ed	4.8683	2.1082	661	2.31	0.0212
Student: Read/Write Special Ed	0.2061	2.5003	661	0.08	0.9343
Random Effects					
Variance Components		Estimate	ICC		
Level-2 Random Intercept	School	1.0153	0.0037		
Level-1 Residual	Student	270.08			

Exhibit Table 3

6th Grade Student Reading Strategy Use; MARSJ Scores:– Summary of Model Results

Fixed Effects					
Effect	Estimate	Standard Error	df	t Value	Pr > t
Intercept	3.1171	0.1108	10	28.13	<.0001
School: Reading KCCT at base year (2006), Centered by grand mean of middle schools	0.01846	0.0082	373	2.25	0.0250
School: Percent of Free & Reduced Lunch Students, current year, Centered by grand mean of middle schools	0.01509	0.0065	373	2.32	0.0207
School: Percent Disabled students, current year, Centered by grand mean of middle schools	0.04782	0.0224	373	2.13	0.0334
School: Percent African American, current year, Centered by grand mean of middle schools	-0.03058	0.0102	373	-3.01	0.0028
Fall MARSJ scores, Centered by school	0.3590	0.0486	373	7.38	<.0001
Student: Intervention	0.1539	0.0643	373	2.39	0.0171
Student: Male student	-0.1442	0.0646	373	-2.23	0.0262
Random Effects					
Variance Components		Estimate	ICC		
Level-2 Random Intercept	School	0.01239	0.031		
Level-1 Residual	Student	0.3936			

Exhibit Table 4

9th Grade Student Reading Strategy Use; MARSJ Scores:– Summary of Model Results

Fixed Effects					
Effect	Estimate	Standard Error	DF	t Value	Pr > t
Intercept	2.9356	0.1095	9	26.82	<.0001
School: Reading KCCT at base year (2006), Centered by grand mean of high schools	0.0289	0.0077	384	3.74	0.0002
School: Percent Disabled students, concurrent year, Centered by grand mean of high schools	0.06374	0.0202	384	3.16	0.0017
School: Percent White, concurrent year, Centered by grand mean of high schools	0.01728	0.0061	384	2.85	0.0046
Fall MARSJ scores, Centered by school	0.3946	0.0491	384	8.03	<.0001
Student: Intervention	0.08480	0.0666	384	1.27	00.2034
Student: Male student	-0.1507	0.0676	384	-2.23	0.0263
Student: White student	-0.2533	0.1105	384	-2.29	0.0224
Random Effects					
Variance Components		Estimate	ICC		
			.0167		
Level-2 Random Intercept	School	0.007472			
Level-1 Residual	Student	0.4390			

Exhibit Table 5

6th Grade Student Motivation; MRQ Scores:– Summary of Model Results

Fixed Effects					
Effect	Estimate	Standard Error	df	t Value	Pr > t
Intercept	2.721	0.0502	10	54.24	<.0001
School: Reading KCCT at base year (2006), Centered by grand mean of middle schools	0.011	0.0068	374	1.60	0.1102
School: Percent of Free & Reduced Lunch Students, current year, Centered by grand mean of middle schools	0.010	0.0050	374	2.08	0.0386
School: Percent Disabled students, current year, Centered by grand mean of middle schools	0.034	0.0163	374	2.05	0.0409
School: Percent African American, current year, Centered by grand mean of middle schools	-0.013	0.0076	374	-1.70	0.0892
Fall MRQ scores, Centered by school	0.368	0.0461	374	7.99	<.0001
Student: Intervention	0.108	0.0421	374	2.55	0.0110
Student: Higher SES (no free/reduced lunch)	-0.064	0.0466	374	-1.38	0.1676
Random Effects					
Variance Components	Estimate	ICC			
Level-2 Random Intercept	School	0.01250	0.068		
Level-1 Residual	Student	0.1703			

Exhibit Table 6

9th Grade Student Motivation; MRQ Scores:– Summary of Model Results

Fixed Effects					
Effect	Estimate	Standard Error	DF	t Value	Pr > t
Intercept	2.3581	0.1002	9	23.53	<.0001
School: Reading KCCT at base year (2006), Centered by grand mean of high schools	0.01002	0.0045	384	2.24	0.025
Fall MRQ scores, Centered by school	0.5204	0.0502	384	10.37	<.0001
Student: Intervention Student	0.1221	0.0442	384	2.76	0.0060
Student: Male Student	-0.0932	0.0451	384	-2.07	0.0395
Student: White Student	-0.1697	0.0704	384	-2.41	0.0164
Random Effects					
Variance Components	Estimate	ICC			
Level-2 Random Intercept	School	0.0066	0.033		
Level-1 Residual	Student	0.1934			