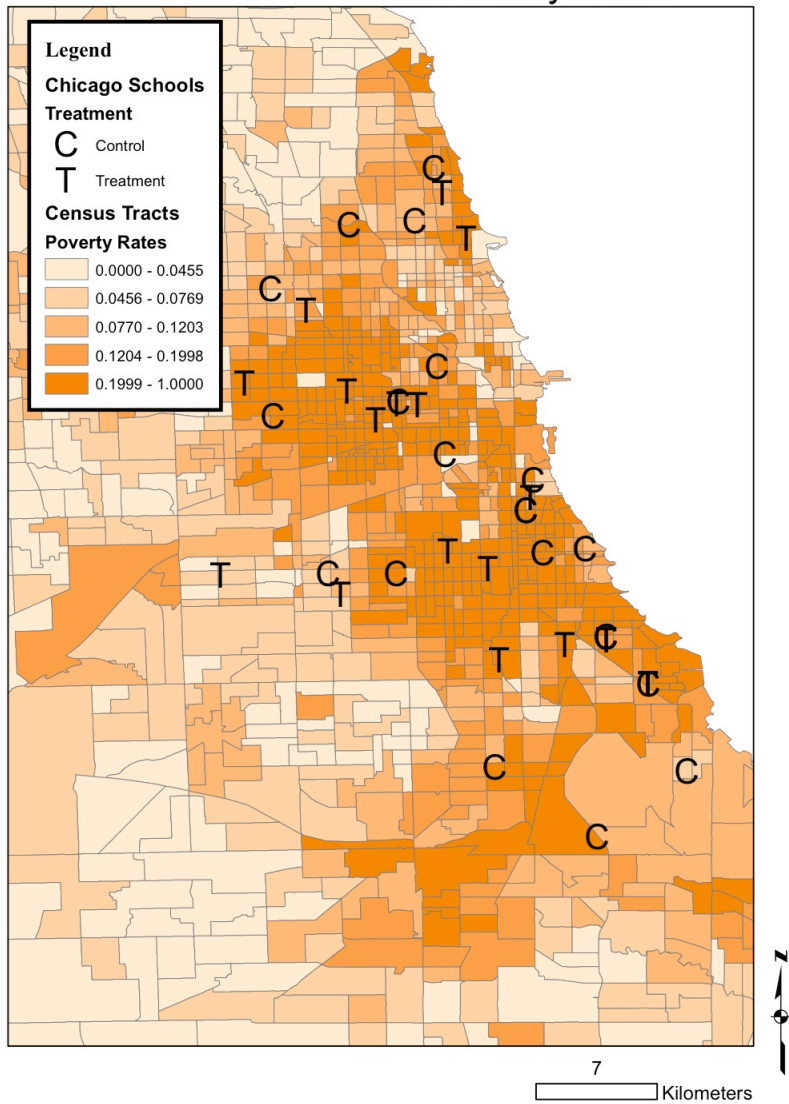
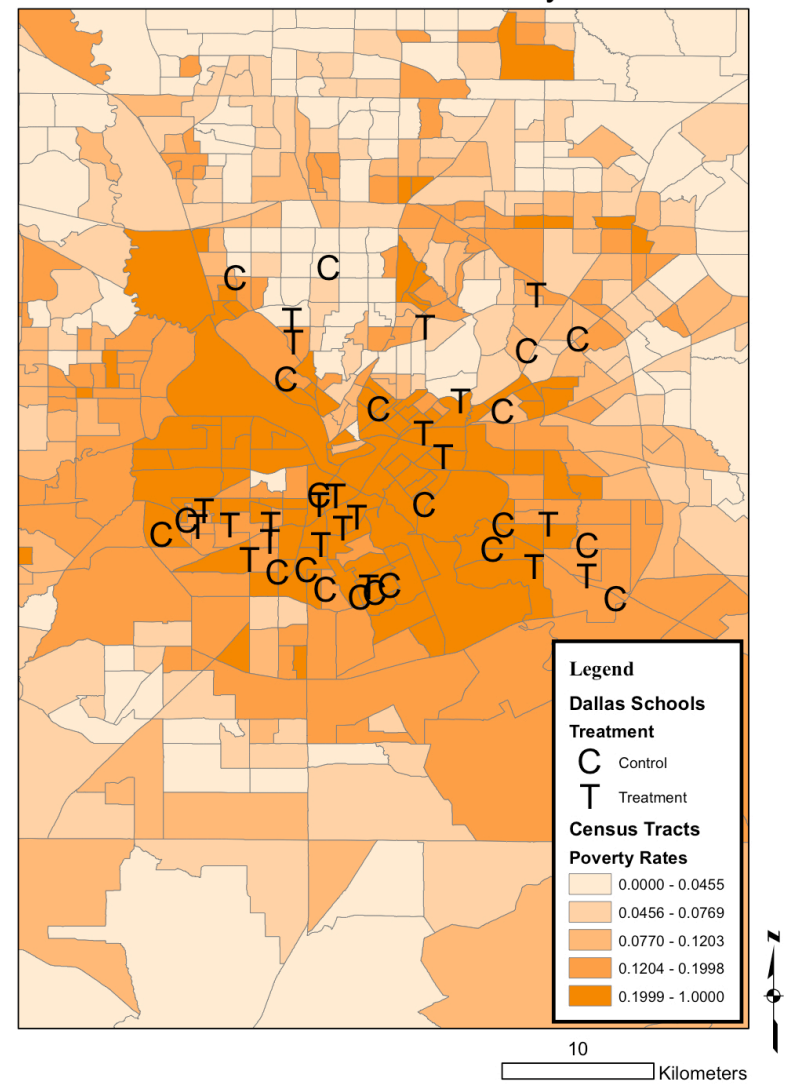


Chicago Treatment and Control Schools and Their Census Tract Poverty Rates

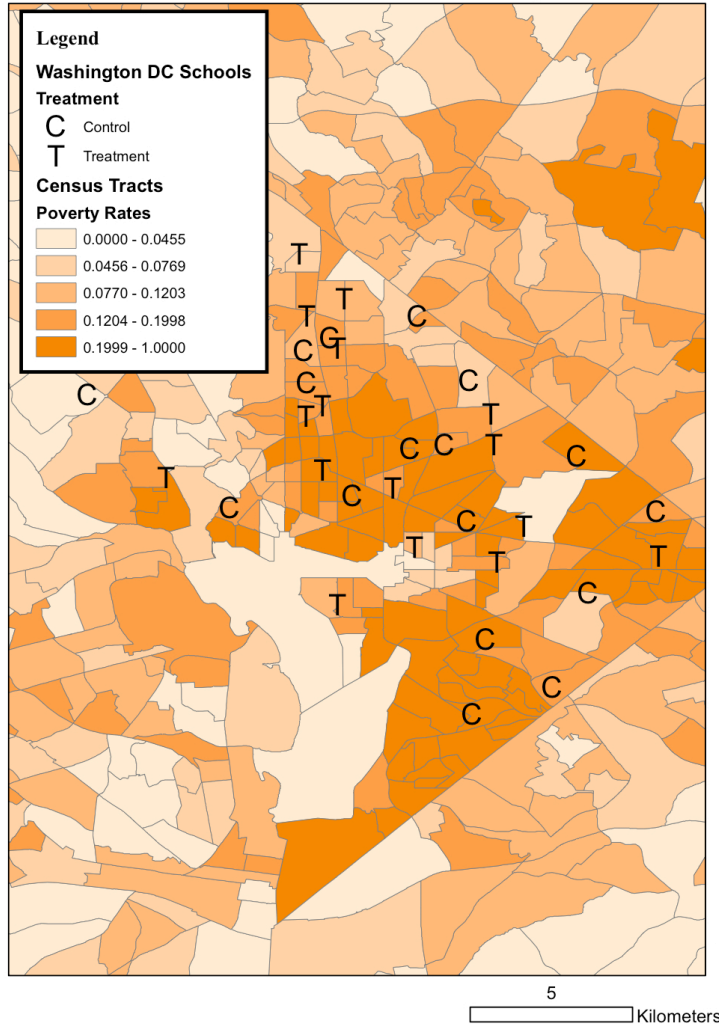


Dallas Treatment and Control Schools and Their Census Tract Poverty Rates

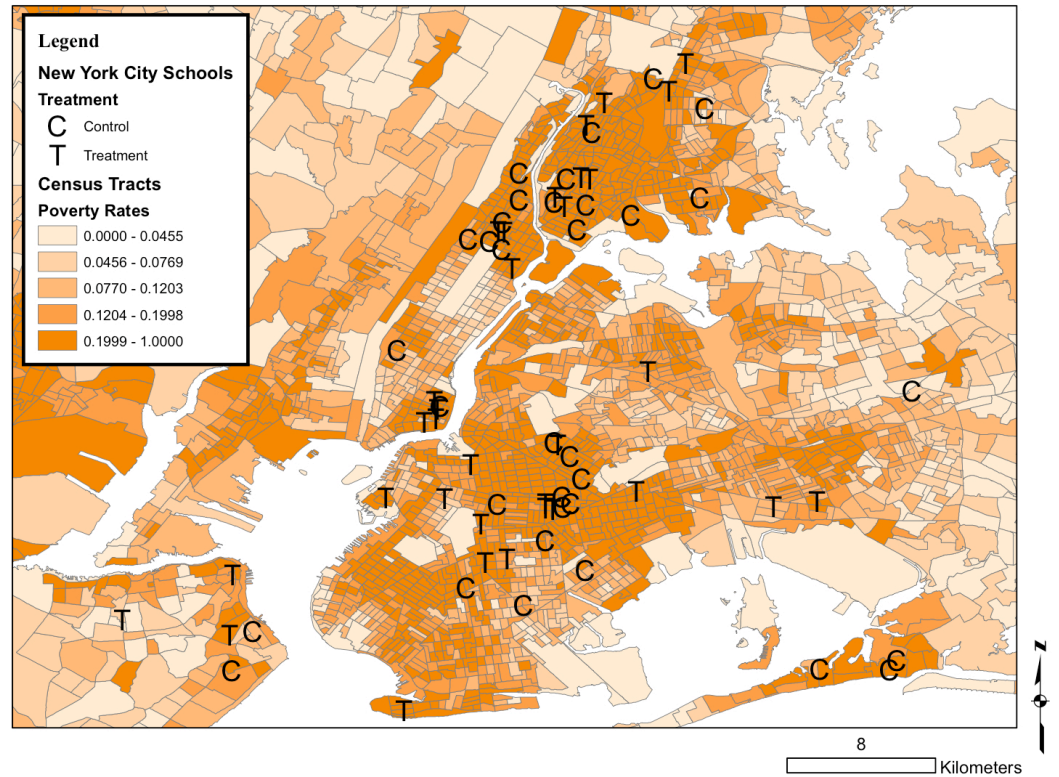


Appendix Figure 1: Geographic Distribution of Treatment and Control Schools, Dallas and Chicago

### Washington, D.C. Treatment and Control Schools and Their Census Tract Poverty Rates



### New York City Treatment and Control Schools and Their Census Tract Poverty Rates



Appendix Figure 2: Geographic Distribution of Treatment and Control Schools, Washington, DC and New York City

Appendix Table 1A: Dallas Summary Statistics, English

	Experimental Group			Treatment			Control		
	Mean	Std. Dev.	N	Mean	Std. Dev.	N	Mean	Std. Dev.	N
White	0.029	0.168	1963	0.016	0.124	955	0.042	0.200	1008
Black	0.420	0.494	1963	0.409	0.492	955	0.430	0.495	1008
Hispanic	0.534	0.499	1963	0.568	0.496	955	0.502	0.500	1008
Asian	0.014	0.119	1963	0.005	0.072	955	0.023	0.149	1008
Other race	0.003	0.055	1963	0.002	0.046	955	0.004	0.063	1008
Male	0.527	0.499	1963	0.510	0.500	955	0.543	0.498	1008
Free lunch	0.441	0.497	1960	0.454	0.498	954	0.429	0.495	1006
Special education	0.063	0.243	1960	0.066	0.248	954	0.060	0.237	1006
English Language Learner (ELL)	0.129	0.335	1960	0.130	0.336	954	0.128	0.335	1006
Percent black	0.297	0.283	1963	0.279	0.251	955	0.315	0.309	1008
Percent Hispanic	0.678	0.276	1963	0.704	0.248	955	0.653	0.299	1008
Percent free lunch	0.563	0.114	1963	0.580	0.095	955	0.546	0.128	1008
Std. ITBS reading comprehension 2007-08	-0.058	0.971	1900	-0.042	0.954	917	-0.073	0.988	983
Std. ITBS reading vocabulary 2007-08	-0.151	0.848	1954	-0.189	0.812	951	-0.115	0.879	1003
Std. ITBS language total 2007-08	-0.017	0.987	1944	-0.029	0.987	949	-0.006	0.988	995
Std. ITBS math total 2007-08	0.007	0.989	1953	-0.045	0.953	951	0.056	1.020	1002
ITBS reading comprehension 2006-07	1.554	0.988	1963	1.460	0.974	955	1.643	0.994	1008
ITBS reading vocabulary 2006-07	1.247	0.954	1963	1.148	0.927	955	1.340	0.971	1008
ITBS language total 2006-07	1.424	0.922	1963	1.301	0.872	955	1.540	0.953	1008
ITBS math total 2006-07	1.406	0.938	1963	1.263	0.880	955	1.541	0.971	1008
ITBS reading comprehension 2005-06	0.120	0.404	1963	0.124	0.413	955	0.117	0.396	1008
ITBS reading vocabulary 2005-06	0.530	0.721	1963	0.476	0.690	955	0.580	0.746	1008
ITBS language total 2005-06	0.687	0.610	1963	0.639	0.587	955	0.733	0.628	1008
ITBS math total 2005-06	0.686	0.593	1963	0.650	0.578	955	0.719	0.605	1008
Std. attendance rate 2007-08	-0.179	1.110	1957	-0.214	1.215	953	-0.146	0.999	1004
Std. GPA 2007-08	0.022	1.032	1935	0.050	1.000	943	-0.004	1.061	992
Missing free lunch status	0.002	0.039	1963	0.001	0.032	955	0.002	0.045	1008
Missing special education status	0.002	0.039	1963	0.001	0.032	955	0.002	0.045	1008
Missing ELL status	0.002	0.039	1963	0.001	0.032	955	0.002	0.045	1008
Missing reading comprehension 2006-07	0.192	0.394	1963	0.215	0.411	955	0.171	0.376	1008
Missing reading vocabulary 2006-07	0.173	0.378	1963	0.191	0.393	955	0.156	0.363	1008
Missing language total 2006-07	0.180	0.385	1963	0.192	0.394	955	0.170	0.376	1008
Missing math total 2006-07	0.175	0.380	1963	0.190	0.392	955	0.161	0.367	1008
Missing reading comprehension 2005-06	0.911	0.285	1963	0.909	0.288	955	0.913	0.282	1008
Missing reading vocabulary 2005-06	0.263	0.440	1963	0.286	0.452	955	0.241	0.428	1008
Missing language total 2005-06	0.268	0.443	1963	0.288	0.453	955	0.249	0.433	1008
Missing math total 2005-06	0.260	0.439	1963	0.279	0.449	955	0.243	0.429	1008

Appendix Table 1B: Dallas Summary Statistics, Spanish

	Experimental Group			Treatment			Control		
	Mean	Std. Dev.	N	Mean	Std. Dev.	N	Mean	Std. Dev.	N
White	0.001	0.024	1767	0.001	0.035	825	0.000	0.000	942
Black	0.001	0.024	1767	0.001	0.035	825	0.000	0.000	942
Hispanic	0.999	0.034	1767	0.998	0.049	825	1.000	0.000	942
Asian	0.000	0.000	1767	0.000	0.000	825	0.000	0.000	942
Other race	0.000	0.000	1767	0.000	0.000	825	0.000	0.000	942
Male	0.506	0.500	1767	0.507	0.500	825	0.505	0.500	942
Free lunch	0.728	0.445	1766	0.738	0.440	825	0.719	0.450	941
Special education	0.024	0.152	1766	0.028	0.165	825	0.020	0.141	941
English Language Learner (ELL)	0.973	0.163	1766	0.967	0.178	825	0.978	0.148	941
Percent black	0.156	0.150	1767	0.174	0.174	825	0.141	0.123	942
Percent Hispanic	0.817	0.154	1767	0.808	0.175	825	0.824	0.132	942
Percent free lunch	0.618	0.066	1767	0.616	0.068	825	0.619	0.063	942
Std. Logramos reading comprehension 2007-08	-0.036	1.019	1756	-0.113	1.056	819	0.032	0.980	937
Std. Logramos reading vocabulary 2007-08	-0.029	1.000	1759	-0.140	1.019	822	0.069	0.974	937
Std. Logramos language total 2007-08	-0.017	1.015	1742	-0.016	1.013	822	-0.018	1.017	920
Std. Logramos math total 2007-08	-0.055	0.995	1759	-0.022	1.000	822	-0.084	0.990	937
Logramos reading comprehension 2006-07	3.840	2.450	1767	3.823	2.481	825	3.854	2.424	942
Logramos reading vocabulary 2006-07	3.511	2.345	1767	3.566	2.344	825	3.463	2.345	942
Logramos language total 2006-07	3.258	2.441	1767	3.399	2.484	825	3.134	2.397	942
Logramos math total 2006-07	0.787	0.841	1767	0.812	0.848	825	0.765	0.836	942
Logramos reading comprehension 2005-06	1.394	1.896	1767	1.342	1.853	825	1.440	1.933	942
Logramos reading vocabulary 2005-06	0.557	1.315	1767	0.622	1.438	825	0.500	1.195	942
Logramos language total 2005-06	2.008	2.214	1767	1.997	2.244	825	2.017	2.188	942
Logramos math total 2005-06	0.000	0.005	1767	0.000	0.000	825	0.000	0.007	942
Std. attendance rate 2007-08	0.274	0.654	1765	0.267	0.655	825	0.280	0.654	940
Std. GPA 2007-08	0.006	0.883	1760	0.006	0.873	824	0.006	0.893	936
Missing free lunch status	0.001	0.024	1767	0.000	0.000	825	0.001	0.033	942
Missing special education status	0.001	0.024	1767	0.000	0.000	825	0.001	0.033	942
Missing ELL status	0.001	0.024	1767	0.000	0.000	825	0.001	0.033	942
Missing reading comprehension 2006-07	0.110	0.313	1767	0.127	0.333	825	0.094	0.293	942
Missing reading vocabulary 2006-07	0.092	0.289	1767	0.096	0.294	825	0.089	0.285	942
Missing language total 2006-07	0.096	0.294	1767	0.101	0.301	825	0.091	0.288	942
Missing math total 2006-07	0.434	0.496	1767	0.428	0.495	825	0.438	0.496	942
Missing reading comprehension 2005-06	0.291	0.455	1767	0.305	0.461	825	0.279	0.449	942
Missing reading vocabulary 2005-06	0.701	0.458	1767	0.698	0.459	825	0.703	0.457	942
Missing language total 2005-06	0.263	0.440	1767	0.278	0.448	825	0.251	0.434	942
Missing math total 2005-06	0.999	0.024	1767	1.000	0.000	825	0.999	0.033	942

Appendix Table 1C: NYC Summary Statistics, 4th Grade

	Experimental Group			Treatment			Control		
	Mean	Std. Dev.	N	Mean	Std. Dev.	N	Mean	Std. Dev.	N
White	0.036	0.186	6872	0.043	0.202	3440	0.029	0.167	3432
Black	0.445	0.497	6872	0.441	0.497	3440	0.450	0.498	3432
Hispanic	0.434	0.496	6872	0.439	0.496	3440	0.429	0.495	3432
Asian	0.078	0.268	6872	0.072	0.258	3440	0.084	0.277	3432
Other race	0.007	0.084	6872	0.006	0.076	3440	0.008	0.092	3432
Male	0.515	0.500	6874	0.511	0.500	3441	0.520	0.500	3433
Free lunch	0.904	0.295	5342	0.891	0.311	2805	0.917	0.276	2537
Special education	0.119	0.324	6676	0.126	0.332	3343	0.112	0.315	3333
English Language Learner (ELL)	0.166	0.372	6676	0.171	0.376	3343	0.161	0.368	3333
Individual-level behavior 2007-08	0.044	0.316	6633	0.037	0.316	3315	0.051	0.317	3318
School-level behavior 2007-08	31.135	39.183	6898	21.478	21.984	3455	40.825	49.029	3443
Percent black	0.430	0.282	6898	0.424	0.290	3455	0.436	0.274	3443
Percent Hispanic	0.438	0.259	6898	0.444	0.255	3455	0.432	0.263	3443
Percent free lunch	0.901	0.095	6898	0.889	0.128	3455	0.912	0.038	3443
Std. ELA 2008-09	-0.159	0.923	6594	-0.151	0.916	3296	-0.167	0.931	3298
Std. math 2008-09	-0.156	0.967	6617	-0.115	0.998	3315	-0.198	0.934	3302
ELA 2007-08	653.030	36.128	6366	654.140	36.792	3173	651.927	35.427	3193
Math 2007-08	677.909	33.278	6506	678.865	34.433	3243	676.958	32.065	3263
ELA 2006-07	600.707	33.671	328	602.699	28.894	156	598.901	37.475	172
Math 2006-07	632.976	31.332	338	632.248	34.348	157	633.608	28.541	181
Std. attendance rate 2008-09	-0.107	1.056	6898	-0.095	1.018	3455	-0.119	1.094	3443
Std. GPA 2008-09	-0.110	0.983	2162	-0.113	1.034	821	-0.108	0.952	1341
Std. individual behavior 2008-09	0.045	1.245	6898	0.009	1.267	3455	0.081	1.221	3443
Std. predictive ELA 1 2008-09	-0.165	0.955	6032	-0.182	0.979	2939	-0.149	0.930	3093
Std. predictive ELA 2 2008-09	-0.183	1.011	6000	-0.202	1.050	3042	-0.162	0.969	2958
Std. predictive math 1 2008-09	-0.231	0.953	5791	-0.241	0.964	2932	-0.221	0.942	2859
Std. predictive math 2 2008-09	-0.218	0.947	5878	-0.240	0.982	3016	-0.195	0.908	2862
Missing race	0.004	0.061	6898	0.004	0.066	3455	0.003	0.056	3443
Missing sex	0.003	0.059	6898	0.004	0.064	3455	0.003	0.054	3443
Missing free lunch status	0.226	0.418	6898	0.188	0.391	3455	0.263	0.440	3443
Missing special education status	0.032	0.176	6898	0.032	0.177	3455	0.032	0.176	3443
Missing ELL status	0.032	0.176	6898	0.032	0.177	3455	0.032	0.176	3443
Missing individual-level behavior 2007-08	0.038	0.192	6898	0.041	0.197	3455	0.036	0.187	3443
Missing school-level behavior 2007-08	0.000	0.000	6898	0.000	0.000	3455	0.000	0.000	3443
Missing ELA 2007-08	0.077	0.267	6898	0.082	0.274	3455	0.073	0.260	3443
Missing math 2007-08	0.057	0.232	6898	0.061	0.240	3455	0.052	0.223	3443
Missing ELA 2006-07	0.952	0.213	6898	0.955	0.208	3455	0.950	0.218	3443
Missing math 2006-07	0.951	0.216	6898	0.955	0.208	3455	0.947	0.223	3443

Appendix Table 1D: NYC Summary Statistics, 7th Grade

	Experimental Group			Treatment			Control		
	Mean	Std. Dev.	N	Mean	Std. Dev.	N	Mean	Std. Dev.	N
White	0.068	0.251	10800	0.077	0.266	4880	0.060	0.238	5920
Black	0.414	0.493	10800	0.367	0.482	4880	0.453	0.498	5920
Hispanic	0.417	0.493	10800	0.431	0.495	4880	0.405	0.491	5920
Asian	0.098	0.297	10800	0.123	0.328	4880	0.077	0.266	5920
Other race	0.004	0.060	10800	0.002	0.047	4880	0.005	0.069	5920
Male	0.508	0.500	10801	0.516	0.500	4880	0.502	0.500	5921
Free lunch	0.895	0.306	8543	0.871	0.335	4040	0.917	0.276	4503
Special education	0.122	0.327	10537	0.132	0.338	4768	0.114	0.317	5769
English Language Learner (ELL)	0.145	0.352	10537	0.144	0.351	4768	0.145	0.352	5769
Individual-level behavior 2007-08	0.063	0.347	10448	0.087	0.414	4743	0.044	0.277	5705
School-level behavior 2007-08	53.690	52.878	10846	61.908	57.688	4900	46.917	47.505	5946
Percent black	0.409	0.294	10846	0.366	0.292	4900	0.445	0.290	5946
Percent Hispanic	0.419	0.285	10846	0.429	0.284	4900	0.411	0.285	5946
Percent free lunch	0.897	0.104	10846	0.880	0.140	4900	0.911	0.057	5946
Std. ELA 2008-09	-0.151	0.938	10252	-0.103	1.043	4657	-0.192	0.839	5595
Std. math 2008-09	-0.152	0.975	10338	-0.104	1.060	4685	-0.191	0.896	5653
ELA 2007-08	647.199	28.252	9941	648.031	29.521	4513	646.506	27.135	5428
Math 2007-08	660.091	40.741	10024	661.707	42.896	4616	658.712	38.757	5408
ELA 2006-07	648.918	37.566	9541	650.158	39.846	4312	647.895	35.547	5229
Math 2006-07	661.948	40.566	9750	663.784	42.888	4410	660.431	38.482	5340
Std. attendance rate 2008-09	-0.110	1.044	10846	-0.136	1.089	4900	-0.088	1.005	5946
Std. GPA 2008-09	-0.246	0.998	8252	-0.251	1.018	3617	-0.242	0.983	4635
Std. individual behavior 2008-09	0.084	1.419	10846	0.217	1.933	4900	-0.025	0.755	5946
Std. predictive ELA 1 2008-09	-0.152	1.036	7990	-0.145	1.079	3750	-0.159	0.996	4240
Std. predictive ELA 2 2008-09	-0.145	1.008	8144	-0.108	1.051	3717	-0.177	0.970	4427
Std. predictive math 1 2008-09	-0.192	1.002	8315	-0.131	1.072	3718	-0.243	0.939	4597
Std. predictive math 2 2008-09	-0.158	0.999	8090	-0.138	1.070	3654	-0.175	0.937	4436
Missing race	0.004	0.065	10846	0.004	0.064	4900	0.004	0.066	5946
Missing sex	0.004	0.064	10846	0.004	0.064	4900	0.004	0.065	5946
Missing free lunch status	0.212	0.409	10846	0.176	0.380	4900	0.243	0.429	5946
Missing special education status	0.028	0.166	10846	0.027	0.162	4900	0.030	0.170	5946
Missing ELL status	0.028	0.166	10846	0.027	0.162	4900	0.030	0.170	5946
Missing individual-level behavior 2007-08	0.037	0.188	10846	0.032	0.176	4900	0.041	0.197	5946
Missing school-level behavior 2007-08	0.000	0.000	10846	0.000	0.000	4900	0.000	0.000	5946
Missing ELA 2007-08	0.083	0.277	10846	0.079	0.270	4900	0.087	0.282	5946
Missing math 2007-08	0.076	0.265	10846	0.058	0.234	4900	0.090	0.287	5946
Missing ELA 2006-07	0.120	0.325	10846	0.120	0.325	4900	0.121	0.326	5946
Missing math 2006-07	0.101	0.301	10846	0.100	0.300	4900	0.102	0.303	5946

Appendix Table 1E: DC Summary Statistics

	Experimental Group			Treatment			Control		
	Mean	Std. Dev.	N	Mean	Std. Dev.	N	Mean	Std. Dev.	N
White	0.039	0.193	6039	0.020	0.141	3495	0.064	0.245	2544
Black	0.849	0.358	6039	0.856	0.352	3495	0.840	0.367	2544
Hispanic	0.095	0.293	6039	0.110	0.312	3495	0.075	0.263	2544
Asian	0.017	0.129	6039	0.014	0.119	3495	0.021	0.143	2544
Other race	0.000	0.018	6039	0.000	0.017	3495	0.000	0.020	2544
Male	0.502	0.500	6039	0.496	0.500	3495	0.509	0.500	2544
Free lunch	0.719	0.450	5988	0.736	0.441	3476	0.695	0.460	2512
Special education	0.177	0.382	6035	0.181	0.385	3492	0.172	0.378	2543
English Language Learner (ELL)	0.059	0.236	6035	0.070	0.254	3492	0.045	0.208	2543
Individual-level behavior 2007-08	0.085	0.643	5514	0.088	0.590	3201	0.079	0.710	2313
School-level behavior 2007-08	16.231	14.684	6039	16.903	15.878	3495	15.309	12.808	2544
Percent black	0.836	0.218	6039	0.837	0.208	3495	0.835	0.232	2544
Percent Hispanic	0.106	0.179	6039	0.125	0.203	3495	0.080	0.135	2544
Percent free lunch	0.705	0.190	6039	0.723	0.177	3495	0.680	0.204	2544
Elementary school	0.218	0.413	6039	0.120	0.326	3495	0.351	0.478	2544
Grade 6	0.272	0.445	6039	0.272	0.445	3495	0.272	0.445	2544
Grade 7	0.354	0.478	6039	0.341	0.474	3495	0.372	0.483	2544
Grade 8	0.374	0.484	6039	0.387	0.487	3495	0.357	0.479	2544
Std. DC-CAS reading 2008-09	0.035	0.946	5844	0.014	0.906	3368	0.063	0.997	2476
Std. DC-CAS math 2008-09	0.040	0.953	5846	0.013	0.925	3372	0.077	0.989	2474
DC-CAS reading 2007-08	667.592	80.387	4425	668.185	79.957	2557	666.781	80.986	1868
DC-CAS math 2007-08	663.822	79.095	4425	664.419	78.827	2557	663.004	79.473	1868
DC-CAS reading 2006-07	568.728	83.087	4464	569.427	82.861	2571	567.779	83.405	1893
DC-CAS math 2006-07	565.400	80.152	4464	565.921	79.715	2571	564.693	80.756	1893
Std. attendance rate 2008-09	0.038	0.950	6039	0.090	0.955	3495	-0.034	0.939	2544
Std. GPA 2008-09	-0.083	0.985	5802	-0.125	0.997	3370	-0.025	0.964	2432
Std. individual-level behavior 2008-09	0.011	1.041	6039	-0.081	0.833	3495	0.137	1.261	2544
Missing race	0.000	0.000	6039	0.000	0.000	3495	0.000	0.000	2544
Missing sex	0.000	0.000	6039	0.000	0.000	3495	0.000	0.000	2544
Missing free lunch status	0.008	0.092	6039	0.005	0.074	3495	0.013	0.111	2544
Missing special education status	0.001	0.026	6039	0.001	0.029	3495	0.000	0.020	2544
Missing ELL status	0.001	0.026	6039	0.001	0.029	3495	0.000	0.020	2544
Missing individual-level behavior 2007-08	0.087	0.282	6039	0.084	0.278	3495	0.091	0.287	2544
Missing school-level behavior 2007-08	0.000	0.000	6039	0.000	0.000	3495	0.000	0.000	2544
Missing DC-CAS reading 2007-08	0.267	0.443	6039	0.268	0.443	3495	0.266	0.442	2544
Missing DC-CAS math 2007-08	0.267	0.443	6039	0.268	0.443	3495	0.266	0.442	2544
Missing DC-CAS reading 2006-07	0.261	0.439	6039	0.264	0.441	3495	0.256	0.436	2544
Missing DC-CAS math 2006-07	0.261	0.439	6039	0.264	0.441	3495	0.256	0.436	2544



Appendix Table 1F: Chicago Summary Statistics

	Experimental Group			Treatment			Control		
	Mean	Std. Dev.	N	Mean	Std. Dev.	N	Mean	Std. Dev.	N
White	0.048	0.213	10628	0.051	0.219	4396	0.045	0.208	6232
Black	0.557	0.497	10628	0.581	0.493	4396	0.539	0.499	6232
Hispanic	0.379	0.485	10628	0.356	0.479	4396	0.395	0.489	6232
Asian	0.016	0.126	10628	0.011	0.103	4396	0.020	0.140	6232
Other race	0.001	0.031	10628	0.001	0.034	4396	0.001	0.028	6232
Male	0.506	0.500	10628	0.519	0.500	4396	0.497	0.500	6232
Free lunch	0.932	0.251	10484	0.937	0.243	4333	0.929	0.257	6151
English Language Learner (ELL)	0.009	0.094	10382	0.008	0.091	4304	0.009	0.096	6078
Percent black	0.558	0.381	10628	0.569	0.389	4396	0.550	0.376	6232
Percent Hispanic	0.367	0.340	10628	0.356	0.338	4396	0.376	0.342	6232
Percent free lunch	0.926	0.073	10628	0.934	0.055	4396	0.921	0.083	6232
Std. PLAN English 2009-10	-0.236	0.796	7616	-0.258	0.776	3266	-0.220	0.810	4350
Std. PLAN math 2009-10	-0.219	0.810	7599	-0.239	0.776	3260	-0.204	0.834	4339
ISAT reading 2007-08	238.769	19.150	9123	238.365	19.245	3726	239.048	19.081	5397
ISAT math 2007-08	255.739	21.842	9176	255.850	21.707	3746	255.663	21.937	5430
ISAT reading 2006-07	227.977	22.387	9041	227.764	22.670	3722	228.125	22.188	5319
ISAT math 2006-07	242.521	22.638	9022	242.647	22.511	3713	242.433	22.729	5309
Std. attendance rate 2008-09	0.036	0.853	10628	0.087	0.835	4396	-0.000	0.864	6232
Std. GPA 2008-09	-0.051	0.936	10613	-0.015	0.928	4387	-0.077	0.940	6226
Number of credits earned 2008-09	46.175	15.513	10221	46.999	15.223	4218	45.597	15.688	6003
Missing race	0.000	0.000	10628	0.000	0.000	4396	0.000	0.000	6232
Missing sex	0.000	0.000	10628	0.000	0.000	4396	0.000	0.000	6232
Missing free lunch status	0.014	0.116	10628	0.014	0.119	4396	0.013	0.113	6232
Missing ELL status	0.023	0.150	10628	0.021	0.143	4396	0.025	0.155	6232
Missing ISAT reading 2007-08	0.142	0.349	10628	0.152	0.359	4396	0.134	0.341	6232
Missing ISAT math 2007-08	0.137	0.343	10628	0.148	0.355	4396	0.129	0.335	6232
Missing ISAT reading 2006-07	0.149	0.356	10628	0.153	0.360	4396	0.147	0.354	6232
Missing ISAT math 2006-07	0.151	0.358	10628	0.155	0.362	4396	0.148	0.355	6232



Appendix Table 2: Randomization Check

	Dallas	DC	Chicago	NYC	
	2nd	6th - 8th	9th	4th	7th
Percent white	0.046 (0.072)		0.031 (0.030)	-0.007 (0.009)	
Percent black	0.076 (0.069)	0.066 (0.025)	0.025 (0.024)	0.004 (0.008)	0.007 (0.007)
Percent Hispanic	0.073 (0.066)	0.085 (0.045)	0.019 (0.023)	0.005 (0.007)	0.008 (0.008)
Percent Asian		0.020 (0.079)			0.016 (0.008)
Percent other race	0.268 (0.354)	1.015 (0.578)	0.647 (0.291)	-0.097 (0.086)	-0.091 (0.145)
Percent male	-0.054 (0.053)	-0.015 (0.036)		-0.010 (0.017)	-0.002 (0.013)
Percent free lunch	0.008 (0.024)	-0.017 (0.015)	0.029 (0.019)	-0.010 (0.008)	-0.005 (0.009)
Percent ELL	-0.006 (0.016)	-0.019 (0.046)	-0.044 (0.082)	0.006 (0.011)	-0.003 (0.010)
Percent special education	0.030 (0.049)	0.002 (0.027)		0.030 (0.014)	0.007 (0.015)
Prev. year reading	-0.102 (0.694)	-0.025 (0.050)	-0.115 (0.053)	0.021 (0.010)	0.007 (0.017)
Prev. year math	0.173 (1.046)	0.019 (0.052)	0.100 (0.041)	-0.005 (0.010)	-0.004 (0.012)
Percent took test prev. year					
Prev. year reading vocab.	0.435 (0.754)				
Prev. year language	-0.916 (1.053)				
K-8 school		-0.848 (0.323)			
Number of students		0.001 (0.001)			
Mean school behavior 2007-08		1.029 (1.371)			
Mean GPA 2007-08		0.604 (0.449)	0.050 (0.566)		
Prev. year mean credits attempted			-0.051 (0.210)		
Prev. year mean credits earned			0.127 (0.254)		
N	42	34	42	68	72
$R^2$	0.366	0.439	0.305	0.151	0.055

NOTES: The dependent variable is treatment status assigned by randomization. Columns contain data that was collected before, during, and after the experiment. Equations estimated are linear regressions identical to Equation (1). All independent variables are pre-treatment, taken from the administrative files in the first month of school. Robust standard errors are in parentheses.

Appendix Table 3: The Effect of Financial Incentives on Student Achievement: Gender and Race – Intent-to-Treat

City	Grade Level	Subject	Full Sample	Male	Female	White	Black	Hispanic	Asian
Dallas (Books)	2nd	Reading Comp.	0.180	0.219	0.134		0.117	0.236	
			(0.075)	(0.077)	(0.083)		(0.084)	(0.097)	
			1900	995	905		789	1023	
		Reading Vocab.	0.051	0.103	-0.009		0.074	0.027	
			(0.068)	(0.074)	(0.074)		(0.088)	(0.072)	
			1954	1030	924		818	1045	
	Language	0.136	0.168	0.096		0.125	0.148		
		(0.080)	(0.072)	(0.113)		(0.072)	(0.106)		
		1944	1020	924		809	1045		
	2nd Spanish	Reading Comp.	-0.165	-0.150	-0.171				
			(0.090)	(0.111)	(0.079)				
			1756	888	868				
Reading Vocab.		-0.232	-0.217	-0.242					
		(0.099)	(0.114)	(0.093)					
		1759	890	869					
Language	-0.061	-0.027	-0.078						
	(0.125)	(0.155)	(0.103)						
	1742	878	864						
DC (Att./Behavior)	6th - 8th	Reading	0.152	0.228	0.077	-0.175	0.136	0.267	-0.087
			(0.092)	(0.115)	(0.070)	(0.164)	(0.094)	(0.109)	(0.323)
		5844	2903	2941	233	4956	555	98	
	Math	0.114	0.161	0.064	-0.744	0.099	0.149	0.378	
(0.106)		(0.120)	(0.098)	(0.145)	(0.109)	(0.122)	(0.364)		
	5846	2905	2941	233	4948	561	102		

Appendix Table 3 (Continued)

City	Grade Level	Subject	Full Sample	Male	Female	White	Black	Hispanic	Asian
Chicago (Grades)	9th	English	-0.006 (0.027)	0.014 (0.029)	-0.027 (0.032)	-0.116 (0.055)	0.010 (0.032)	-0.009 (0.037)	0.173 (0.147)
			7616	3629	3987	361	4171	2943	136
		Math	-0.010 (0.023)	-0.021 (0.027)	-0.001 (0.027)	-0.071 (0.098)	0.006 (0.025)	-0.007 (0.035)	-0.137 (0.145)
			7599	3629	3970	361	4155	2942	136
NYC (Test Scores)	4th	ELA	-0.021 (0.033)	-0.007 (0.035)	-0.040 (0.038)	-0.129 (0.120)	-0.003 (0.046)	-0.012 (0.034)	-0.060 (0.061)
			6594	3365	3222	233	2940	2857	507
		Math	0.067 (0.046)	0.071 (0.048)	0.059 (0.049)	-0.259 (0.161)	0.125 (0.063)	0.011 (0.044)	0.206 (0.069)
	6617		3388	3225	237	2939	2871	516	
	7th	ELA	0.018 (0.018)	0.019 (0.021)	0.015 (0.021)	0.081 (0.057)	-0.005 (0.028)	0.021 (0.020)	0.034 (0.071)
			10252	5178	5061	709	4253	4247	992
Math		-0.018 (0.035)	-0.008 (0.037)	-0.028 (0.037)	0.037 (0.067)	-0.048 (0.035)	-0.044 (0.041)	0.153 (0.076)	
			10338	5226	5105	709	4241	4317	1026

NOTES: The dependent variable is the state assessment taken in each respective city. There were no incentives provided for this test. All tests have been normalized to have a mean of zero and a standard deviation of one within each grade across the entire sample of students in the school district with valid test scores. Thus, coefficients are in standard deviation units. All entries are ITT estimates with our set of controls. See Section 3 in the text for a formal definition of ITT. An estimate for a racial group was only included if there were more than 100 individuals in that racial group in the experimental group. All standard errors, located in parentheses, are clustered at the school level.

Appendix Table 4: The Effect of Financial Incentives on Student Achievement: Previous Year Test Scores, Free Lunch, and Behavior – Intent-to-Treat

City	Grade Level	Subject	Full Sample	Lowest Tercile	Middle Tercile	Highest Tercile	Missing Scores	Free Lunch	No Free Lunch	No Beh. Incidents	$\geq 1$ Beh. Incident
Dallas (Books)	2nd	Reading Comp.	0.180 (0.075)	0.171 (0.097)	0.129 (0.103)	0.303 (0.079)	0.073 (0.121)	0.164 (0.070)	0.217 (0.088)		
		N	1900	539	513	499	349	835	1062		
		Reading Vocab.	0.051 (0.068)	0.107 (0.068)	0.064 (0.079)	0.085 (0.105)	-0.106 (0.122)	0.046 (0.069)	0.073 (0.081)		
		N	1954	567	562	486	339	863	1088		
		Language	0.136 (0.080)	0.137 (0.086)	0.237 (0.107)	0.106 (0.118)	0.072 (0.147)	0.079 (0.087)	0.191 (0.091)		
	N	1944	642	433	517	352	860	1081			
	2nd Spanish	Reading Comp.	-0.165 (0.090)	-0.299 (0.128)	-0.039 (0.099)	-0.045 (0.073)	-0.319 (0.303)	-0.180 (0.092)	-0.123 (0.116)		
		N	1756	596	517	456	187	1276	479		
		Reading Vocab.	-0.232 (0.099)	-0.436 (0.106)	-0.077 (0.117)	-0.116 (0.076)	-0.341 (0.273)	-0.216 (0.104)	-0.285 (0.106)		
		N	1759	589	499	511	160	1280	478		
Language		-0.061 (0.125)	-0.229 (0.159)	0.040 (0.144)	-0.004 (0.100)	0.055 (0.273)	-0.055 (0.129)	-0.093 (0.133)			
N	1742	541	518	517	166	1271	470				
DC (Att./Behavior)	6th - 8th	Reading	0.152 (0.092)	0.059 (0.090)	0.066 (0.082)	0.063 (0.066)	0.144 (0.103)	0.131 (0.083)	0.204 (0.129)	0.150 (0.084)	0.316 (0.192)
		N	5844	1517	1462	1374	1491	4163	1636	5129	216
	6th - 8th	Math	0.114 (0.106)	0.038 (0.126)	0.030 (0.091)	0.018 (0.096)	0.110 (0.114)	0.104 (0.107)	0.143 (0.107)	0.119 (0.100)	0.129 (0.230)
		N	5846	1442	1512	1392	1500	4161	1641	5123	214

Appendix Table 4 (Continued)

City	Grade Level	Subject	Full Sample	Lowest Tercile	Middle Tercile	Highest Tercile	Missing Scores	Free Lunch	No Free Lunch	No Beh. Incidents	$\geq 1$ Beh. Incident
Chicago (Grades)	9th	English	-0.006 (0.027)	0.011 (0.027)	-0.007 (0.031)	-0.010 (0.039)	0.035 (0.080)	-0.005 (0.028)	0.020 (0.065)		
		N	7616	2066	2453	2398	699	6975	569		
		Math	-0.010 (0.023)	0.005 (0.033)	-0.010 (0.027)	0.006 (0.039)	-0.086 (0.066)	-0.007 (0.024)	-0.061 (0.044)		
		N	7599	2098	2319	2521	661	6961	567		
NYC (Test Scores)	4th	ELA	-0.021 (0.033)	0.016 (0.053)	0.008 (0.036)	-0.077 (0.046)	-0.014 (0.098)	-0.002 (0.035)	-0.111 (0.077)	-0.025 (0.032)	0.109 (0.098)
		N	6594	2263	2002	1959	370	4688	506	6217	191
		Math	0.067 (0.046)	0.089 (0.054)	0.112 (0.046)	0.038 (0.064)	-0.078 (0.124)	0.037 (0.045)	0.124 (0.102)	0.072 (0.046)	0.042 (0.089)
		N	6617	2133	2160	2016	308	4725	505	6197	188
	7th	ELA	0.018 (0.018)	-0.025 (0.023)	-0.013 (0.019)	0.075 (0.034)	0.110 (0.075)	0.007 (0.022)	0.135 (0.048)	0.023 (0.019)	-0.047 (0.046)
		N	10252	3485	2907	3257	603	7329	879	9562	430
		Math	-0.018 (0.035)	-0.040 (0.042)	-0.043 (0.034)	0.023 (0.055)	-0.078 (0.082)	-0.033 (0.037)	0.076 (0.053)	-0.019 (0.035)	0.071 (0.079)
		N	10338	3178	3397	3107	656	7410	884	9576	423

NOTES: The dependent variable is the state assessment taken in each respective city. There were no incentives provided for this test. All tests have been normalized to have a mean of zero and a standard deviation of one within each grade across the entire sample of students in the school district with valid test scores. Thus, coefficients are in standard deviation units. All entries are ITT estimates with our set of controls. See Section 3 in the text for a formal definition of ITT. Behavioral incident data were not available for Dallas and Chicago. All standard errors, located in parentheses, are clustered at the school level.

Appendix Table 5: Alternative Outcomes – Intent-to-Treat

A. Dallas (Books)							
Grade Level	Attendance Rates	Report Card Grades	Math Test Scores				
2nd	-0.040 (0.078)	0.228 (0.106)	0.059 (0.098)				
	1957	1935	1953				
2nd Spanish	-0.021 (0.036)	-0.048 (0.130)	0.051 (0.118)				
	1765	1760	1759				
B. DC (Attendance/Behavior)							
Grade Level	Attendance Rates	Report Card Grades	Behavioral Incidents				
6th - 8th	0.146 (0.204)	0.042 (0.128)	-0.274 (0.219)				
	6039	5802	6039				
C. Chicago (Grades)							
Grade Level	Attendance Rates	Report Card Grades	Total Credits Earned				
9th	0.152 (0.083)	0.093 (0.057)	1.968 (1.153)				
	10628	10613	10221				
D. NYC (Test Scores)							
Grade Level	Attendance Rates	Report Card Grades	Behavioral Incidents	Predictive ELA 1	Predictive ELA 2	Predictive Math 1	Predictive Math 2
4th	0.027 (0.039)	-0.038 (0.092)	-0.040 (0.052)	-0.073 (0.038)	-0.067 (0.044)	-0.044 (0.040)	-0.056 (0.052)
	6898	2162	6898	6032	6000	5791	5878
7th	-0.079 (0.041)	-0.044 (0.070)	0.157 (0.099)	-0.025 (0.028)	-0.045 (0.045)	0.009 (0.034)	-0.107 (0.043)
	10846	8252	10846	7990	8144	8315	8090

NOTES: Dependent variables vary from city to city and column to column. All dependent variables, except credits earned, have been normalized to have a mean of zero and a standard deviation of one within each grade across the entire sample of students in the school district. Thus, all coefficients are in standard deviation units (except for the coefficient on credits earned). All entries are ITT estimates with our set of controls. Predictive ELA 1 is taken in October. Predictive ELA 2 is taken in May of the same school year. Predictive math scores are similar. All standard errors, located in parentheses, are clustered at the school level.

Appendix Table 6: The Effect of Financial Incentives on Effort – Intent-to-Treat

City	Grade Level	Not Late for School	Ask Teacher for Help	Complete Hmwk.	Work Hard in School	Arrive on Time	Beh. Not Problem for Teachers	Satisfied with Achvmnt.	Push Myself Hard in School	Time Spent on Hmwk.
Dallas (Books)	2nd		-0.234 (0.107)		0.174 (0.088)					
	N		884		888					
	2nd Spanish		-0.128 (0.061)		-0.064 (0.123)					
	N		1022		1026					
DC (Att./Behavior)	6th - 8th	-0.030 (0.063)	-0.002 (0.063)	0.282 (0.048)	0.010 (0.051)	0.059 (0.039)	0.128 (0.049)	-0.025 (0.046)	0.008 (0.031)	0.015 (0.045)
	N	3444	3454	3441	3361	3350	3331	3337	3338	3265
NYC (Test Scores)	7th	0.031 (0.054)	0.050 (0.051)	-0.055 (0.062)	-0.024 (0.037)	0.051 (0.039)	-0.028 (0.040)	-0.005 (0.056)	0.021 (0.043)	-0.012 (0.035)
	N	3347	3374	3350	3340	3307	3294	3291	3290	3286

NOTES: Dependent variables vary by column and are gleaned from surveys administered in every district as part of the experiment. All dependent variables have been normalized to have a mean zero and a standard deviation of one in the experimental group. All entries are ITT estimates with our set of controls. See Appendix B for more details regarding survey questions. All standard errors, located in parentheses, are clustered at the school level.



Appendix Table 7: The Effect of Financial Incentives on Attitudes Toward Schoolwork – Intent-to-Treat

City	Grade Level	Mean/SD	Intrinsic Motivation Inventory	Enjoy Schlwk.	Schlwk. Is Fun	Schlwk. Is Not Boring	Schlwk. Holds Attention	Schlwk. Interesting	Schlwk. Enjoyable	Think About Schlwk. Enjoyment
Dallas (Books)	2nd	23.517 (6.266)	0.488 (0.679)	0.099 (0.123)	0.058 (0.119)	0.082 (0.101)		0.087 (0.142)	-0.017 (0.150)	0.062 (0.126)
	N	797	797	887	851	872		874	876	867
	2nd Spanish	24.223 (5.760)	-0.773 (0.567)	-0.111 (0.112)	-0.084 (0.148)	-0.069 (0.104)		-0.130 (0.100)	-0.059 (0.114)	-0.199 (0.088)
	N	936	936	1021	987	1016		1013	1020	1002
DC (Att./Behavior)	6th - 8th	27.314 (9.710)	0.649 (0.543)	0.173 (0.111)	0.182 (0.098)	-0.052 (0.092)	0.047 (0.076)	0.142 (0.077)	0.123 (0.074)	0.020 (0.114)
	N	2766	2766	3094	3064	3048	3006	3027	3027	3071
NYC (Test Scores)	7th	25.520 (9.721)	-0.675 (0.493)	-0.124 (0.077)	-0.139 (0.081)	-0.230 (0.100)	0.002 (0.097)	-0.144 (0.080)	-0.169 (0.080)	-0.100 (0.086)
	N	2829	2829	3161	3133	3092	3073	3121	3100	3162

NOTES: Dependent variables vary by column and are taken directly from the Intrinsic Motivation Inventory developed in Ryan (1982) and administered in every district as part of the experiment. All dependent variables for NYC and DC are measured on a seven-point Likert scale, whereas variables for Dallas are on a five-point scale. All entries are ITT estimates with our set of controls. See Appendix B for more details regarding survey questions. All standard errors, located in parentheses, are clustered at the school level.

Appendix Table 8: The Impact of Incentives on Achievement:  
by Teacher Value Added – Intent-to-Treat

Grade Level	Subject	With Valid Teacher Data	Below Median Teacher Value Added	Above Median Teacher Value Added
4th	ELA	-0.008 (0.042)	0.015 (0.055)	-0.035 (0.067)
	N	3399	1712	1687
	Math	0.100 (0.063)	0.050 (0.074)	0.136 (0.069)
	N	3277	1646	1631
7th	ELA	-0.015 (0.025)	-0.015 (0.030)	-0.048 (0.034)
	N	3765	1970	1795
	Math	-0.043 (0.052)	-0.021 (0.045)	-0.091 (0.068)
	N	4826	2432	2394

NOTES: The dependent variable is the state assessment taken in New York. There were no incentives provided for this test. All tests have been normalized to have a mean of zero and a standard deviation of one within each grade across the entire sample of students in the school district. Thus, coefficients are in standard deviation units. All entries are ITT estimates with our set of controls. Teacher Value was calculated for New York by the Battelle Institute (<http://www.battelleforkids.org/>) for all teachers in math and ELA in grades four through eight. All standard errors, located in parentheses, are clustered at the school level.