Online Table 1: Descriptive Statistics on Children's Schools

School Teacher Resources		
Teacher-student ratio across whole school	0.06	(0.01)
Average classroom teacher-student ratio	0.05	(0.02)
Proportion core teachers with more than Bachelor's	0.32	(0.12)
Core teachers' average years experience	11.05	(2.87)
Special education teachers' average years experience	12.57	(5.54)
Structural Resources for Distinctive Learners		
School is a charter	0.07	
Subject of student's magnet program:		
Not in a magnet program	0.83	
Applied	0.08	
Arts or alternative pedagogy	0.07	
Academically intensive	0.02	
Student Population Resources		
Proportion students:		
Living in poverty	0.24	(0.14)
Black	0.28	(0.26)
Hispanic	0.61	(0.29)
English learners	0.30	(0.23)
School average test score	-0.01	(0.37)
<u> </u>	•	

Note: Data on schools of 346,957 children. Standard deviations in parentheses besides means.

Online Table 2: Descriptive Statistics on Children

Decimal and the	ics on cimi		
Designated with:		Grade level last year at risk:	
No disability	0.973	Pre-kindergarten	0.08
Learning disability	0.015	Kindergarten	0.08
Speech impairment	0.007	Between grades 1 and 3	0.22
Other health impairment	0.003	Between grades 4 and 5	0.14
Intellectual disability	0.001	Between grades 6 and 12	0.47
Emotional disturbance	0.001	Child's zoned status:	
Autism	0.001	Zoned school	0.72
First school year child in district:		Non-zoned school	0.26
2006-07	0.53	Lives outside of district	0.02
2007-08	0.10	Age relative to others in same	0.00
2008-09	0.10	grade	(1.00)
2009-10	0.09	Male	0.50
2010-11	0.09	Race:	
2011-12	0.09	White	0.08
First grade level in district:		Black	0.29
Pre-kindergarten	0.25	Hispanic	0.59
Kindergarten	0.12	Other	0.04
Between grades 1 and 3	0.21	Child's economic status:	
Between grades 4 and 5	0.11	Not disadvantaged	0.21
Between grades 6 and 12	0.32	Eligible for reduced lunch	0.09
Last school year at risk:		Eligible for free lunch	0.50
2006-07	0.09	Living in poverty	0.20
2007-08	0.09	In Gifted and Talented program	0.13
2008-09	0.09	English learner	0.29
2009-10	0.10	Average test score	0.02
2010-11	0.11		(0.82)
2011-12	0.52	Missing all test scores	0.14

Note: Data on 346,957 children. Standard deviations in parentheses below means.

Online Table 3: Rates of Missingness

	30111811000					
	06-07	07-08	08-09	09-10	10-11	11-12
Proportion Stud	dents Missi	ng All Test	Scores Witl	hin their Fo	cus Year	
All	0.165	0.181	0.189	0.212	0.198	0.303
No disability	0.161	0.182	0.193	0.215	0.200	0.306
Learning disability	0.017	0.011	0.012	0.005	0.009	0.042
Speech impairment	0.318	0.347	0.332	0.444	0.398	0.468
Other health impairment	0.143	0.142	0.092	0.112	0.081	0.142
Intellectual disability	0.500	0.383	0.328	0.286	0.328	0.385
Emotional disturbance	0.107	0.118	0.077	0.156	0.105	0.183
Autism	0.520	0.647	0.571	0.535	0.515	0.558
Proportion Stud	ents Missin	g all Test S	cores Acros	s All Years	in District	
All	0.143	0.132	0.144	0.160	0.121	0.142
No disability	0.144	0.135	0.150	0.167	0.124	0.143
Learning disability	0.003	0.001	0.001	0.001	0.001	0.016
Speech impairment	0.017	0.026	0.024	0.040	0.031	0.154
Other health impairment	0.035	0.044	0.026	0.018	0.029	0.065
Intellectual disability	0.353	0.250	0.224	0.171	0.103	0.308
Emotional disturbance	0.018	0.020	0.019	0.000	0.015	0.086
Autism	0.240	0.412	0.286	0.256	0.303	0.468
Proportion Sch	nool Variab	les Missing	Among No	n-Charter	Schools	
Charter and magnet status	0.98	0.01	0.00	0.00	0.01	0.00
Campus staff variables ^a	0.09-0.26	0.02-0.17	0.01-0.17	0.02-0.16	0.02-0.16	0.01-0.14
Teacher level aggregated ^b	0.98		0.02-0.06	0.02-0.06	0.03-0.09	0.07-0.19
Student level aggregated	0.09	0.02	0.02	0.02	0.03	0.07
Proportion					hools	
Charter and magnet status	0.68	0.12	0.16	0.04	0.00	0.00
Campus staff variables				0.44-0.66		
Teacher level aggregated	0.68			0.06-0.66		
Student level aggregated	0.06	0.12	0.18	0.06	0.06	0.34
a Campus staff variables by	ad diffarant	rates of m	iccinanacc	a crace vari	ablac withi	n tha

a - Campus staff variables had different rates of missingness across variables within the same school.

b - Teacher level variables were aggregated from multiple sources which resulted in different rates of missingness across variables within the same school; some of these data sources were not available from the district for 2006-07.

Online Table 4, Part 1 of 2: Achievement and English Learner Distinction - Hazard Ratios of Diagnosis with a Disability from Weibull Regression Models

Diagnosis with a Disability from Weisan Regression	N	/lodel	1:	N	lodel	2:
	Average Test Score			Englis	sh Lea	arners
	HR		(SE)	HR		(SE)
School Teacher Resources						
Teacher-student ratio across whole school	1.19		(0.11)	1.11	**	(0.03)
Average classroom teacher-student ratio	1.12	+	(0.03)	1.24	**	(0.09)
Proportion core teachers with more than Bachelor's	0.96		(0.06)	0.98		(0.05)
Core teachers' average years experience	1.08	+	(0.05)	1.08	+	(0.05)
Special education teachers' average years experience	0.99		(0.03)	0.99		(0.03)
Structural Resources for Distinctive Learners						
School is a charter	0.86		(0.19)	0.96		(0.20)
Subject of student's magnet program:						
Not in a magnet program (ref)	-			-		
Applied	1.13		(0.12)	1.13		(0.13)
Arts or alternative pedagogy	1.02		(0.10)	1.04		(0.10)
Academically intensive	1.41		(0.35)	1.56	+	(0.41)
Student Population Resources						
Proportion students:						
Living in poverty	0.89		(0.06)	0.88	+	(0.06)
Black	0.98		(80.0)	0.99		(0.08)
English Learners	1.00		(0.06)	1.02		(0.06)
x Child is English Learner				0.90	+	(0.06)
School average test score	1.31	***	(80.0)	1.30	***	(0.07)
x Child score (-0.5, 0.0) SDs	1.22	**	(80.0)			
x Child score [0.0, 0.5) SDs	1.05		(0.07)			
x Child score between [0.5, max] SDs	1.19		(0.14)			
Child Characteristics						
Child's zoned status:						
Zoned school (ref)	-			-		
Non-zoned school	1.20	**	(0.06)	1.08		(0.06)
Lives outside of district	2.58	***	(0.39)	2.48	***	(0.46)
Age relative to others in same grade	1.45	***	(0.02)	1.47	***	(0.02)
Male	1.66	***	(0.04)	1.67	***	(0.06)

Online Table 4, Part 2 of 2: Achievement and English Learner Distinction - Hazard Ratios of Diagnosis with a Disability from Weibull Regression Models

Tracara ratios of Braginosis With a 2	Mode	•	ntinued			
	HR		(SE)	HR		(SE)
Child Characteristics, continued						
Race:						
White (ref)	-			-		
Black	0.71	***	(0.05)	0.77	***	(0.05)
Hispanic	0.64	***	(0.04)	0.68	***	(0.04)
Other	0.47	***	(0.05)	0.51	***	(0.05)
Child's economic status:						
Not disadvantaged (ref)	-			-		
Eligible for reduced lunch	0.91		(0.05)	0.94		(0.06)
Eligible for free lunch	1.00		(0.05)	1.02		(0.05)
Living in poverty	0.88	*	(0.04)	0.97		(0.05)
In Gifted and Talented program	0.31	***	(0.04)	0.25	***	(0.05)
English learner	0.66	***	(0.02)	0.65	***	(0.04)
Average test score:				0.40	***	(0.02)
[minimum, 0.5] standard deviatior	ıs (SDs)	(ref)				
(-0.5, 0.0) SDs	0.20	***	(0.01)			
[0.0, 0.5) SDs	0.10	***	(0.01)			
[0.5, maximum] SDs	0.05	***	(0.01)			
Missing all test scores	1.83	***	(0.19)	1.64	***	(0.20)
First school year in district:						
2006-07 (ref)						
2007-08	1.31	***	(0.05)	1.35	***	(0.05)
2008-09	1.55	***	(0.07)	1.57	***	(0.07)
2009-10	1.89	***	(0.11)	1.89	***	(0.11)
2010-11	2.32	***	(0.16)	2.25	***	(0.16)
2011-12	3.94	***	(0.33)	1.55	**	(0.24)
First grade level in district:						
Pre-kindergarten (ref)						
Kindergarten	1.23	***	(0.07)	1.42	***	(0.08)
Between grades 1 and 3	1.10	+	(0.06)	1.25	***	(0.07)
Between grades 4 and 5	0.53	***	(0.04)	0.59	***	(0.05)
Between grades 6 and 12	0.15	***	(0.02)	0.18	***	(0.02)
Constant	0.01	***	(0.00)	0.00	***	(0.00)

Note: Model 1 relies on a categorical measure of children's average test score to facilitate graphical representation.

^{***}p<0.001, **p<0.01, *p<0.05, +p<0.10, two-tailed test.

Online Table 5, Part 1 of 3: Race Distinction - Hazard Ratios of Diagnosis with a Disabiilty from Weibull Regression Models

		oanic	Black					
	Mode	el 1:	Mode	l 2:	Model 3:		Mode	14:
	Dispropor-		Dispropor-		Dispropor-		Dispropor-	
	tionatel	y over-	tionately	tionately under-		y over-	tionately	under-
	design	ated	designated		designated		designa	ated
	disabiliti	ies (LD,	disabiliti	disabilities (SI,		ies (LD,	disabilitie	s (OHI,
	OHI, IE), ED)	Aut	Aut))	ID, ED, Aut)	
	HR	(SE)	HR	(SE)	HR	(SE)	HR	(SE)
School Teacher Resources				_		_		
Teacher-student ratio across whole school	1.19 +	(0.11)	1.27 **	(0.09)	1.26 **	(0.09)	1.26 **	(0.09)
Average classroom teacher-student ratio	1.13 **	(0.05)	1.11 ***	(0.03)	1.08 **	(0.03)	1.09 ***	(0.03)
Proportion core teachers with more than Bachelor's	0.96	(0.07)	1.03	(0.05)	1.04	(0.05)	1.05	(0.05)
Core teachers' average years experience	1.08	(0.06)	1.10 *	(0.05)	1.10 *	(0.05)	1.09 +	(0.05)
Special education teachers' average years experience	0.98	(0.03)	0.99	(0.03)	0.98	(0.03)	0.99	(0.03)
Structural Resources for Distinctive Learner	s							
School is a charter	1.08	(0.29)	0.81	(0.14)	0.87	(0.14)	0.84	(0.14)
Subject of student's magnet program:								
Not in a magnet program (ref)	-		-		-		-	
Applied	1.12	(0.14)	1.32 *	(0.16)	1.37 **	(0.17)	1.34 *	(0.16)
Arts or alternative pedagogy	1.09	(0.14)	1.19	(0.13)	1.21 +	(0.14)	1.19	(0.13)
Academically intensive	1.47	(0.52)	1.19	(0.53)	1.05	(0.47)	1.17	(0.51)

Online Table 5, Part 1 of 3: Race Distinction - Hazard Ratios of Diagnosis with a Disabiilty from Weibull Regression Models

	Hispanic					Black				
	Mode	el 1,	Model 2,		Model 3,		Mode	l 4,		
	continued		continued		continued		continued			
	HR	(SE)	HR	(SE)	HR	(SE)	HR	(SE)		
Student Population Resources										
Proportion students:										
Living in poverty	0.79 **	(0.05)	0.98	(0.05)	1.02	(0.07)	1.03	(0.07)		
Black					0.87	(80.0)	0.88	(0.08)		
x Child is Black					0.95	(0.05)	0.94	(0.05)		
Hispanic	1.02	(0.09)	1.14	(0.10)						
x Child is Hispanic	1.00	(0.07)	0.92	(0.05)						
English Learners	0.96	(0.07)	0.94	(0.08)	0.90	(0.06)	0.91	(0.06)		
School average test score	1.23 **	(0.09)	1.42 ***	(0.09)	1.38 ***	(0.09)	1.38 ***	(0.09)		
Child Characteristics										
Child's zoned status:										
Zoned school (ref)	-		-		-		-			
Non-zoned school	0.98	(0.07)	0.97	(0.06)	0.94	(0.06)	0.97	(0.06)		
Lives outside of district	1.86 **	(0.40)	2.61 ***	(0.31)	2.10 ***	(0.25)	2.61 ***	(0.30)		
Age relative to others in same grade	1.49 ***	(0.03)	1.48 ***	(0.02)	1.48 ***	(0.03)	1.48 ***	(0.03)		
Male	1.53 ***	(0.06)	1.52 ***	(0.06)	1.47 ***	(0.06)	1.52 ***	(0.06)		
Race:										
Black	-		-		1.22 ***	(0.07)	1.21 ***	(0.06)		
Hispanic	1.01	(0.06)	0.86 **	(0.05)	-		-			
Child's economic status:										
Not disadvantaged (ref)	-		-		-		-			
Eligible for reduced lunch	0.99	(0.07)	0.91	(0.06)	0.92	(0.07)	0.92	(0.06)		
Eligible for free lunch	1.11	(0.08)	0.97	(0.05)	0.99	(0.06)	0.98	(0.05)		
Living in poverty	1.05	(0.07)	1.09	(0.06)	1.13 *	(0.06)	1.11 +	(0.06)		

Online Table 5, Part 3 of 3: Race Distinction - Hazard Ratios of Diagnosis with a Disabiilty from Weibull Regression Models

		Hisp	anic			Bla	ack	
	Mode	el 1,	Mode	el 2,	Mode	el 3,	Mode	el 4,
	continued continued		contin	ued	continued			
	HR	(SE)	HR	(SE)	HR	(SE)	HR	(SE)
Child Characteristics, continued								
In Gifted and Talented program	0.15 ***	(0.02)	0.14 ***	(0.03)	0.15 ***	(0.03)	0.14 ***	(0.03)
English learner	0.64 ***	(0.03)	0.54 ***	(0.03)	0.55 ***	(0.03)	0.55 ***	(0.03)
Average test score:	0.40 ***	(0.02)	0.32 ***	(0.01)	0.29 ***	(0.01)	0.32 ***	(0.01)
Missing all test scores	0.76 *	(0.10)	2.85 ***	(0.28)	2.19 ***	(0.25)	2.91 ***	(0.29)
First school year in district:								
2006-07 (ref)	-		-		-		-	
2007-08	1.26 ***	(0.05)	1.36 ***	(0.06)	1.33 ***	(0.06)	1.36 ***	(0.06)
2008-09	1.47 ***	(0.07)	1.58 ***	(0.09)	1.54 ***	(0.09)	1.57 ***	(0.09)
2009-10	1.75 ***	(0.13)	1.74 ***	(0.11)	1.67 ***	(0.11)	1.74 ***	(0.11)
2010-11	2.08 ***	(0.18)	1.82 ***	(0.16)	1.68 ***	(0.16)	1.82 ***	(0.16)
2011-12	1.13	(0.25)	0.38 *	(0.19)	0.16 **	(0.11)	0.38 *	(0.19)
First grade level in district:								
Pre-kindergarten (ref)	-		-		-		-	
Kindergarten	1.26 ***	(0.08)	2.22 ***	(0.11)	2.28 ***	(0.12)	2.21 ***	(0.11)
Between grades 1 and 3	1.18 *	(0.08)	2.52 ***	(0.14)	2.70 ***	(0.15)	2.52 ***	(0.14)
Between grades 4 and 5	0.51 ***	(0.05)	1.30 **	(0.10)	1.40 ***	(0.11)	1.30 **	(0.10)
Between grades 6 and 12	0.12 ***	(0.02)	0.38 ***	(0.05)	0.40 ***	(0.05)	0.37 ***	(0.05)
Constant	0.00 ***	(0.00)	0.00 ***	(0.00)	0.00 ***	(0.00)	0.00 ***	(0.00)

Note: LD=learning disability. SI=speech impairment. OHI=other health impairment. ID=intellectual disability. ED=emotional disturbance. Aut=autism.

^{***}p<0.001, **p<0.01, *p<0.05, +p<0.10, two-tailed test.