Online Appendix The Long-Run Impacts of Special Education

Briana Ballis and Katelyn Heath

Sample IEP transition plan for college-bound students

Name: Noah Lee Grade: 11
Date: Graduation date:
Student's strengths, preferences, and interests
Noah demonstrates that he's a hardworking student. He reported in an interview that he enjoys spending time with family and going to the gym. Based on transition questionnaires, Noah wants to go to college and is interested in a career working with young kids. However, he isn't sure if he wants to be a classroom teacher.
His most recent evaluation and present level of performance in his current IEP indicate that Noah has a specific learning disability in reading comprehension. He also struggles with time management when completing schoolwork, but he is meeting most of his IEP goals. Noah has acknowledged that his difficulties with organization may be a barrier to his goals after high school.
Measurable postsecondary goals
Postsecondary education/vocational training:
Noah will attend a local four-year college after graduation. He will take courses leading to a major in early childhood education.
Jobs and employment:
The summer after graduation, Noah will work part-time at a local childcare center.
Independent living (if needed):
Noah already has these skills.

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Sample IEP transition plan for college-bound students

Supporting IEP goals and services									
Supporting IEP goal	Transition activities/services	Person/agency involved							
By December 2020, Noah will fully complete two college applications with 100 percent accuracy.	Prepare a list of what Noah wants in a college. Research colleges and identify three he'd like to apply to that offer training and degree programs in early childhood education.	Noah, his parents, high school counselor							
	Noah will obtain applications from each college and will plan a tour of at least one college of his choice.	Noah, his parents, college admissions offices							
	Receive proofreading support to help check for errors in the applications.	Noah, his parents, transition specialist (school staff member who helps students transition to life after high school)							
By May 2021, Noah will complete a college-skills course offered at a local college or nonprofit organization.	Look into possible programs that will help build organizational skills and prepare him for the demands of college. Apply to program.	Noah, his parents, transition specialist							
By May 2021, Noah will identify three careers that involve working with young children.	Noah will find and interview three people in the community who work with young children.	Noah, transition specialist, local community members, possibly a private coach							
By June 2021, Noah will apply to volunteer at a local childcare center.	Identify three local childcare centers. Ask about volunteering and complete an interview for each.	Noah, transition specialist, local childcare centers							

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 $\textbf{Figure A.1} \ \text{Sample IEP Transition Plan for College-Bound Students, By Andrew M.I. Lee, JD, understood.org } \\$

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PERFORMANCE LEVEL ASSIGNMENT

The district-level special education representation rate is compared to the PBMAS standards for the indicator, and performance levels are assigned as follows:

SPED #12: District Special Education Representation Rate									
Performance Level (PL) Assignments									
Performance Level = Not Assigned	Performance Level = 0 (met standard) (Also includes 0RI)	Performance Level = 1	Performance Level = 2	Performance Level = 3					
PL not equal to 0 and district does not meet minimum size requirements.	The district representation of students receiving special education services is 8.5% or lower. Minimum size requirements not applicable if PL = 0.	The district representation of students receiving special education services is between 8.6% and 12.0%.	The district representation of students receiving special education services is between 12.1% and 16.0%.	The district representation of students receiving special education services is 16.1% or higher.					

The PBMAS special analysis process is not applicable to this indicator. Performance levels are only assigned through standard analysis.

Figure A.2 Performance Level Assignment for the Special Education Representation Rate

Note: This figure shows the performance ratings districts received based on their special education rate. Performance level 0 is the "best" level, which indicates a district is in compliance with the target. Source: Reprinted courtesy of the Texas Education Agency. ©Texas Education Agency, 2004-2021. All rights reserved. This figure comes from the 2004 Performance Based Monitoring Analysis (PBMAS) Manual, available on the Texas Education Agency's website at the following link: https://tea.texas.gov/student-assessment/monitoring-and-interventions/rda/rda-and-pbmas-manuals.

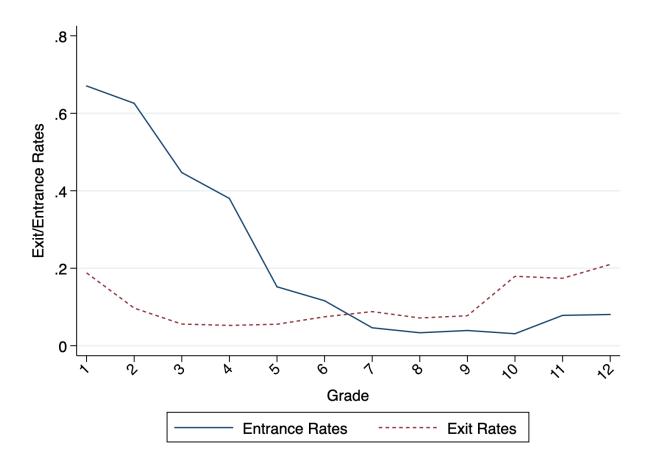


Figure A.3 Entrance and Exit Rates for Students with Malleable Disabilities

Note: The figure plots Special Education (SE) entrance rates (solid line) and SE exit rates (dashed line) in each grade for students with malleable disabilities (i.e. learning disabilities, speech impairments, other health impairments, or emotional disturbance). Entrance rates represent the number of new students enrolled in SE, divided by the total number of students enrolled in the current grade. Exit rates represent the number of students who lost SE, divided by the total number of students enrolled in SE during the grade prior. The sample includes only cohorts who were completely unexposed to the policy.

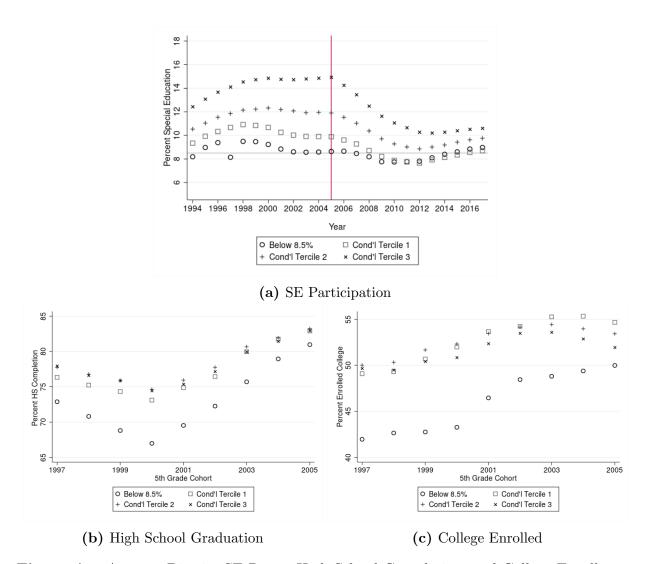


Figure A.4 Average District SE Rates, High School Completion, and College Enrollment

Note: The bottom series denotes districts whose 2005 SE rate was below 8.5%. The top three series break districts into terciles based on their 2005 SE rate, conditional on being above 8.5%. Each series in Panel A plots the district average SE rate in each year, from 1994 to 2017. Each series in Panel B plots the percent of all (SE+GE) students who obtain a high school diploma, across 5th grade cohort years. Each series in Panel C plots the percent of all students who enroll in post-secondary school, across 5th grade cohort years.

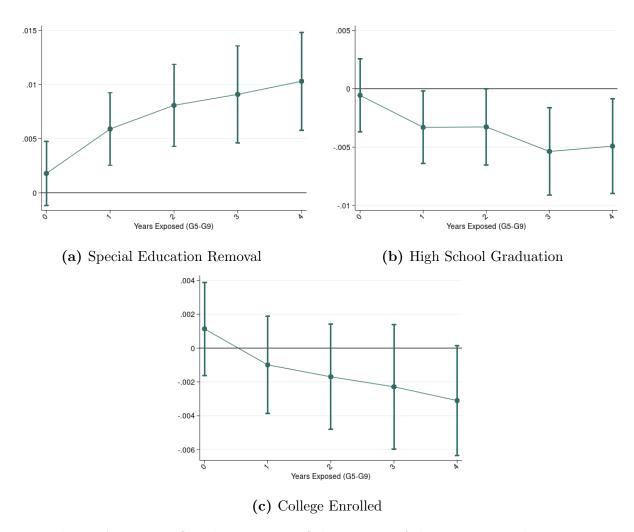


Figure A.5 Event Study Estimates of the Impact of the Policy on Educational Attainment (High-Impact Sample)

Note: These figures plot coefficients and 95% confidence intervals from event-study regressions that estimate interactions between 5th grade cohort dummies and the pre-policy district Special Education (SE) rate. The dependent variable is shown in the sub-figure labels. Event time is computed by subtracting 9 from the grade each 5th grade cohort was expected to be enrolled in during the first year of the policy (or the 2005-06 school year). The sample includes 5th grade cohorts enrolled in SE between 1999-00 to 2004-05 who were in our high-impact sample. The 5th grade cohort from 1999-00 is omitted, so estimates are relative to that cohort. See Figure 2 for more detail on the sample and the full set of controls. Standard errors are clustered at the district level.

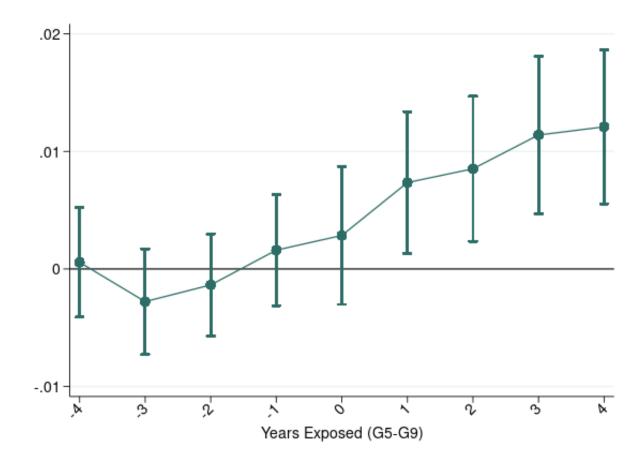


Figure A.6 Event Study Estimates of the Impact of the Policy on Special Education Removal Any Time after 5th Grade (High-Impact Sample)

Note: This figure plots coefficients and 95% confidence intervals from an event-study regression that estimates interactions between 5th grade cohort dummies and the pre-policy district Special Education (SE) rate. The dependent variable is an indicator variable for whether a student ever lost SE services after 5th grade. Event time is defined as the grade each 5th grade cohort was expected to be enrolled in during the first year of the policy (or the 2005-06 school year). The sample includes 5th grade cohorts enrolled in SE between 1995-96 to 2004-05 who were in our high-impact sample. The 5th grade cohort from 1995-96 is omitted, so estimates are relative to that unexposed cohort. See Figure 2 for more detail on the sample and the full set of controls. Standard errors are clustered at the district level.

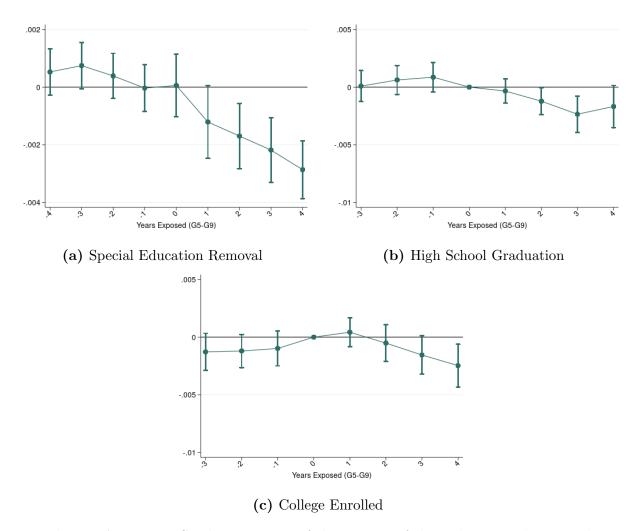


Figure A.7 Event Study Estimates of the Impact of the Policy on Educational Attainment (Special Education and General Education 5th Grade Cohorts Combined)

Note: These figures plot coefficients and 95% confidence intervals from event-study regressions that estimate interactions between 5th grade cohort dummies and the pre-policy district Special Education (SE) rate. The dependent variable is shown in the sub-figure labels. Event time is computed by subtracting 9 from the grade each 5th grade cohort was expected to be enrolled in during the first year of the policy (or the 2005-06 school year). The sample in Panel A includes 5th grade cohorts enrolled between 1995-96 to 2004-05. The sample in Panel B and C includes 5th grade cohorts enrolled between 1997-98 to 2004-05. See Table 6 for more detail on the full set of controls used in the aggregate sample. Standard errors are clustered at the district level.

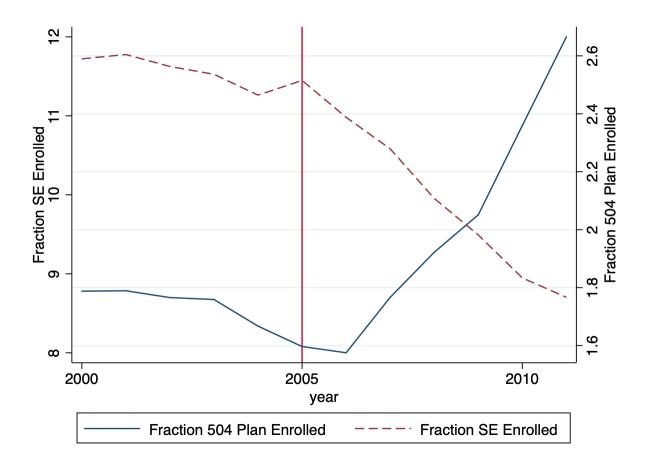


Figure A.8 State Level Participation in 504 Plans and SE Programs

Note: Averages represent district level population averages, that is, the number of students in Special Education or with 504 plans, divided by the total number of students in that district and year. Source: United States Department of Education. Office for Civil Rights. Civil Rights Data Collection (CRDC) Data Collection for the 2008-09-2014-16 School Years. UC Davis, last accessed 2019-06-03.)

Table A.1 Policy Pressure due to PBMAS (2004-05 School Year)

David A. Evantian of Districts meeting standards in each DDMAS Manitoning Cotogony									
Panel A: Fraction of Districts meeting standards in each PBMAS Monitoring Category									
						<u>Reduc</u>	<u>ce Services</u>		
PBMAS	$\underline{\text{Rec}}$	Reduce SE Enrollment Improve Outcomes			Separate	Modified			
Performance Level	Overall	Black	Hispanic	Behavioral	Academic	Instruction	Test-Taking		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)		
0 = Met	0.09	0.58	0.69	0.72	0.92	0.45	0.30		
1 = Nearly Met	0.29	0.09	0.08	0.27	0.07	0.35	0.59		
2 = Not Met	0.36	0.13	0.11	0.02	0.01	0.17	0.11		
3 = Worst Rating	0.25	0.20	0.12	0.00	0.00	0.03	0.00		

Panel B: Correlation b/w Pressure to Reduce Overall SE Enrollment and other PBMAS Pressures

					Redu	ce Services
	Reduce S	SE Enrollment	Improve (Outcomes	Separate	Modified
	Black	Hispanic	Behavioral	Academic	Instruction	Test-Taking
	(2)	(3)	(4)	(5)	(6)	(7)
Correlation Coefficient	0.002	0.017	0.017	-0.071	0.087	0.121

Note: This table shows the policy pressure to make changes for Special Education (SE) due to the introduction of PBMAS monitoring in 2005. Panel A shows the fraction of districts that met the standard (0), nearly met the standard (1), did not meet the standard (2), or had the worst rating (3) under each area of SE monitoring. Panel B shows the raw correlation coefficient between the policy pressure to reduce overall SE enrollment (based on the distance above the 8.5 SE enrollment target in 2005) and the average rating in each of the other PBMAS monitoring areas (measured in 2005).

Table A.2 The Impact of the Policy on Special Education Placement and Educational Attainment– Accounting for Differences in Performance in Special Education Monitoring (High-Impact Sample)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
Panel A: Special Education Removal									
			_	0.00017	0.00000	0.0100	0.00000	0.0101	
Treatment	0.00958	0.0108	0.00829	0.00917	0.00920	0.0100	0.00969	0.0101	
	(0.00217)	(0.00260)	(0.00245)	(0.00210)	(0.00243)	(0.00210)	(0.00217)	(0.00210)	
3.6 (3.7)	[0.0431]	[0.0488]	[0.0373]	[0.0413]	[0.0414]	[0.0451]	[0.0436]	[0.0453]	
Mean (Y)	0.317	0.324	0.333	0.317	0.317	0.317	0.317	0.317	
Panel B: H	igh School (Completion							
Treatment	-0.00497	-0.00578	-0.00522	-0.00466	-0.00507	-0.00520	-0.00481	-0.00506	
	(0.00163)	(0.00176)	(0.00177)	(0.00161)	(0.00187)	(0.00165)	(0.00162)	(0.00165)	
	[-0.0224]	[-0.0260]	[-0.0235]	[-0.0210]	[-0.0228]	[-0.0234]	[-0.0216]	[-0.0228]	
Mean (Y)	0.710	0.712	0.713	0.710	0.710	0.710	0.710	0.710	
D 100	(1) [
	ollege Enrol								
Treatment	-0.00363	-0.00395	-0.00559	-0.00315	-0.00534	-0.00329	-0.00347	-0.00319	
	(0.00149)	(0.00181)	(0.00185)	(0.00151)	(0.00177)	(0.00149)	(0.00148)	(0.00148)	
- (-)	[-0.0163]	[-0.0178]	[-0.0252]	[-0.0142]	[-0.0240]	[-0.0148]	[-0.0156]	[-0.0144]	
Mean (Y)	0.354	0.358	0.364	0.354	0.354	0.354	0.354	0.354	
N	189,042	158,949	152,703	189,042	189,042	189,042	189,042	189,042	
District Sa									
All	X			X	X	X	X	X	
Reduce Sep	arate Inst	Low							
Modified To	est-Taking		Low						
$\underline{Controls}$									
,	ified Test-Ta	~		X					
$f(t) \times \text{Sepa}$		X							
$f(t) \times$ Black Overrepresentation						X			
	anic Overre						X		
	representati							X	
Hispanic O	verrepresent	tation × Fra	$acExposed_c$					X	

Note: This table shows DiD estimates of the impact of the policy on the likelihood of Special Education (SE) removal and educational attainment decisions. Within each panel, each column reports estimates of δ_1 from a separate regression of Equation (1). The dependent variable is shown in the panel headings. The sample includes 5th grade cohorts enrolled in SE between 1999-00 and 2004-05 in our high-impact sample. See Table 2 for more detail on the sample and the full set of controls. The district sample restriction "Reduce Separate Inst" low refers to districts meeting or nearly meeting PBMAS incentives to reduce the amount of time SE students spend in resource rooms. "Modified Test-taking" low refers to districts meeting or nearly meeting PBMAS incentives to reduce the number of students taking modified/accommodated versions of standardized exams. The controls "f(t)" refer to time trends interacted with baseline (2004-05) district PBMAS ratings for Modified test taking and separate instruction, as well as district baseline percent of black or Hispanic representation. "Overrepresentation" is defined as the relative proportion of black or Hispanic students in SE compared to a district overall. The effect for the fully exposed student at the average district is shown in brackets, and is defined as the coefficient multiplied by 4.5. Standard errors in parentheses are clustered at the district level.

Table A.3 Sensitivity of Results to Sample Restrictions and Treatment Definition (High-Impact Sample)

	Main Analysis	No Drops	More Cohorts	Cohort G4	Cohort G6	Policy Exposure 5th -8th Grade	Policy Exposure 5th -10th Grade
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Panel A · Sa	pecial Education I	Removal					
Treatment	0.00958	$\frac{0.00949}{0.00949}$	0.0112	0.00927	0.00849	0.00776	0.0108
Heatment	(0.00333)	(0.00343)	(0.00197)	(0.00327)	(0.00192)	(0.00194)	(0.00233)
	[0.0431]	[0.0427]	[0.0502]	[0.0417]	[0.0382]	[0.0349]	[0.0486]
Mean (Y)	0.317	0.317	0.314	0.387	0.242	[0.0349] 0.269	[0.0480] 0.351
Mean (1)	0.317	0.517	0.314	0.367	0.242	0.209	0.551
Panel B: H	igh School Comple	etion					
Treatment	-0.00497	-0.00462	-0.00522	-0.00259	-0.00505	-0.00426	-0.00488
	(0.00163)	(0.00147)	(0.00149)	(0.00152)	(0.00147)	(0.00147)	(0.00174)
	[-0.0224]	[-0.0208]	[-0.0235]	$[-0.0117]^{'}$	$[-0.0227]^{'}$	[-0.0192]	[-0.0220]
Mean (Y)	0.710	0.710	0.700	0.739	0.690	0.694	0.738
Panel C: C	ollege Enrollment						
Treatment	-0.00363	-0.00341	-0.00251	-0.00397	-0.00218	-0.00302	-0.00318
	(0.00149)	(0.00134)	(0.00150)	(0.00168)	(0.00171)	(0.00141)	(0.00163)
	[-0.0163]	[-0.0153]	[-0.0113]	[-0.0179]	[-0.00979]	[-0.0136]	[-0.0143]
Mean (Y)	0.354	0.354	0.339	0.378	0.330	0.347	0.366
mean (1)	0.004	0.554	0.000	0.510	0.550	0.041	0.500
N	189,042	190,973	282,730	176,626	185,594	193,028	182,422

Note: This table shows DiD estimates of the impact of the policy on the likelihood of Special Education (SE) removal and educational attainment decisions. Within each panel, each column reports estimates of δ_1 from a separate regression of Equation (1). The dependent variable is shown in the panel headings. The sample includes 5th grade cohorts enrolled in SE between 1999-00 to 2004-05 in our high-impact sample. See Table 2 for more detail on the sample and the full set of controls. Column 1 is our baseline estimates, Column 2 does not drop the set of district outliers in 2004-05 (those with SE rates below 6.6% and above 21.5%). Column 3 includes cohorts from 1996-07 through 2004-05. Columns 4 and 5 use different grade cohorts (instead of 5th grade to define the sample), where treatment is measured between the respective grade and expected 9th grade. Columns 6 and 7 change the share of time exposed after 5th grade, which we use to define treatments. The effect for the fully exposed student at the average district is shown in brackets, and is defined as the coefficient multiplied by 4.5. Standard errors in parentheses are clustered at the district level.

 ${\bf Table~A.4}$ Disability Types Before and After the Policy Change

Disability Type	Pre-2005	Post-2005
Learning Disability	56.092	42.991
Speech Impairment	17.549	17.329
Other Health Impairment	7.663	13.065
Emotional Disturbance	7.764	6.703
Orthopedic Impairment	1.229	0.972
Intellectual Disability	6.328	8.315
Autism	1.362	7.837
Auditory Impairment	1.180	1.409
Visual Impairment	0.555	0.755
Deaf/Blind	0.027	0.041
Traumatic Brain Injury	0.179	0.311
Early Childhood Disability	0.074	0.271
Total	5,299,590	5,203,736

Note: This table presents the relative proportion of Special Education (SE) students with each disability type, for those in school in grades K to 12 before (pre-2005) and after (post-2005) policy implementation. Early childhood disabilities only include students ages 3-5.

 ${\bf Table\ A.5\ Cross\ District\ Summary\ Statistics\ -\ Grade\ 5\ Special\ Education\ Students}$

	Distric	t Fraction SE	Enrollmen	t 2004-05
	6.6-10	10.1 - 11.6	11.7-13.5	13.6-21.5
Panel A: Student Demograp	hics			
Hispanic	0.421	0.391	0.470	0.363
Black	0.206	0.232	0.155	0.156
White	0.351	0.359	0.365	0.472
Free-Lunch	0.594	0.626	0.691	0.665
ELL	0.210	0.160	0.196	0.069
Male	0.666	0.661	0.651	0.645
Panel B: Baseline Disability	Informa	ation		
Std Math (G4)	-0.499	-0.524	-0.595	-0.539
Std Reading (G4)	-0.501	-0.526	-0.613	-0.544
Reg Test Math (G4)	0.381	0.367	0.329	0.335
Reg Test Reading (G4)	0.312	0.299	0.254	0.277
Learning Disability	0.546	0.583	0.640	0.634
Speech Impairment	0.173	0.143	0.117	0.107
Other Health Impairment	0.109	0.106	0.0956	0.109
Emotional Disturbance	0.059	0.071	0.065	0.071
Intellectual Disability	0.058	0.047	0.043	0.041
Autism	0.023	0.021	0.015	0.013
Orthopedic Impairment	0.011	0.013	0.009	0.011
Auditory Impairment	0.015	0.012	0.009	0.008
Visual Impairment	0.005	0.005	0.004	0.004
Deafness and Blindness	0.000	0.000	0.000	0.000
Malleable	0.886	0.902	0.918	0.921
Less Malleable	0.114	0.098	0.082	0.079
Mainstream	0.257	0.250	0.208	0.231
Separate Classroom ($\leq 50\%$)	0.603	0.613	0.677	0.649
Separate Classroom $(>50\%)$	0.141	0.138	0.115	0.120
Total Students	57,350	56,543	57,474	56,188
C: District Level Informatio		33,0 =3		
Rural	0.068	0.109	0.240	0.443
Average Cohort Size (SE)	384	544	254	184
Average Cohort Size (All)	3488	4090	1598	1070
Tax Base Wealth PP/1000	337	372	301	312
% Tax Base Wealth Residential	58	58	54	48
Total Districts	138	158	224	459

Note: This table presents district-level summary statistics, where districts are grouped by their 2004-05 district-level Special Education (SE) enrollment. The sample includes all students who were in 5th grade cohorts from 1999-00 to 2004-05, and the summary statistics are reported as of 5th grade (or 4th grade for the test score outcomes).

Table A.6 Cross-Cohort Variation in Policy Exposure (5th Grade SE Cohorts)

Grade 5 Cohort	Polic	y Exposure	e by Year-0	Policy Exposure Before Expected	
	6	7	8	9	9th Grade (FracExposed _c)
1999 - 2000	2000-01	2001-02	2002-03	2003-04	0
2000 - 2001	2001-02	2002-03	2003-04	2004-05	0
2001 - 2002	2002-03	2003-04	2004-05	2005-06	1/4
2002 - 2003	2003-04	2004-05	2005-06	2006-07	1/2
2003 - 2004	2004-05	2005-06	2006-07	2007-08	3/4
2004 - 2005	2005-06	2006-07	2007-08	2008-09	1

Note: This table shows the cross-cohort variation in policy exposure by 5th grade cohort. The first year that districts faced pressure to reduce Special Education (SE) enrollment was during the 2005-06 school year, which we define as the first post-policy year. While all 5th grade SE cohorts were designated as SE before the policy was implemented, they differed in the amount of years that they were exposed to the policy after 5th grade. For each 5th grade cohort, this table shows the share of time policy exposed between 5th grade and expected 9th grade (i.e. $\operatorname{FracExposed}_c$ in Equation (1)).

Table A.7 The Impact of the Policy on Attrition, Predicted Long-Run Outcomes, and Exogenous Student Characteristics

					Predicted			
				SE			-	District
				Removal	High School	College	Enrollment	Switch
	Hispanic	White	FRL	(By G9)	Completion	Enrollment	(By G9)	(By G9)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Panel A: Full Sample								
Treatment	0.0011	0.0007	-0.0019	0.0025	-0.0002	0.0014	0.0001	0.0004
	(0.0010)	(0.0011)	(0.0011)	(0.0011)	(0.0003)	(0.0005)	(0.0008)	(0.0009)
	[0.0049]	[0.0031]	[-0.0085]	[0.0114]	[-0.0012]	[0.0061]	[0.0004]	[0.0017]
Mean (Y)	0.412	0.387	0.645	0.270	0.721	0.327	0.902	0.235
N	$227,\!555$	$227,\!555$	$227,\!555$	$227,\!555$	227,555	$227,\!555$	$252,\!315$	$227,\!555$
Dan al D. High Immage	t Camala							
Panel B: High-Impact		0.0005	0.0010	0.0010	0.0000	0.0007	0.0004	0.0007
Treatment	0.0014	0.0005	-0.0019	0.0018	-0.0002	0.0007	-0.0004	0.0007
	(0.0011)	(0.0012)	(0.0012)	(0.0015)	(0.0003)	(0.0005)	(0.0008)	(0.0011)
) ((37)	[0.0062]	[0.0023]	[-0.0087]	[0.0079]	[-0.0010]	[0.0031]	[-0.0019]	[0.0032]
Mean (Y)	0.422	0.392	0.639	0.316	0.713	0.356	0.905	0.234
N	189,042	189,042	189,042	189,042	189,042	189,042	208,944	189,042
<u>Controls</u>								
Individual							X	X
Individual Disability							X	X
District-Cohort	X	X	X				X	X
District-Finance	X	X	X				X	X

Note: This table shows DiD estimates of the impact of the policy on student demographics, attrition (by expected 9th grade), predicted outcomes, and district switching between 5th and expected 9th grade. Within each panel, each column reports estimates of δ_1 from a separate regression of Equation (1). The dependent variable is shown in the column headings. To obtain predicted values we generate fitted values from a regression of outcomes on the full set of controls (excluding treatment) based on special education students in the pre-policy period (between 1994-95 to 1998-99). Panel A includes estimates for the full sample and Panel B includes estimates from our high-impact sample. The sample includes 5th grade cohorts enrolled in Special Education (SE) between 1999-00 to 2004-05. Each column includes district and cohort fixed effects. See Table 2 for more detail on the sample and full set of controls. The effect for the fully exposed student at the average district is shown in brackets, and is defined as the coefficient multiplied by 4.5. Standard errors in parentheses are clustered at the district level. *p<0.10, ** p<0.05, *** p<0.01.

Table A.8 Impact of the Policy on District Resources: 2000-2010

District Level Outcome	Districts (N)	Moon	Estimated Effect
District Level Outcome	Districts (N)	Mean	Estimated Effect
$Panel\ A:\ Denominator = All\ Student$	nts in District		
Total Spending Per pupil	1,041	$7,\!551$	-15.88
			(32.33)
GE Spending Per Pupil	1,041	4,515	-10.84
	,	·	(18.84)
Instructional Spending Per Pupil	1,041	5,818	-17.82
	,	,	(24.75)
Administrative Spending Per Pupil	1,041	1,522	1.720
	,	,	(7.041)
Health Spending Per Pupil	1,037	353	1.199
	,		(2.558)
Student/Teacher (All)	1,296	15	-0.0234
()	,		(0.0268)
$Panel\ B:\ Denominator=Special\ Ee$	ducation (SE) S	Students	(0.0_00)
SE Spending Per SE-Pupil	1041	8,979	22.83
SE Spending I et SE-I upil	1041	0,919	
	1 070		(88.89)
Student/Teacher (SE Only)	1,252	15	-0.203
			(0.312)

Note: This table shows DiD estimates of the impact of the policy on district-level spending and resources. The dependent variable is shown in the first column. Panel A uses all students in a district to compute each measure. Panel B includes only students enrolled in Special Education (SE) to compute the measure. Each column reports estimates from district level regressions, which regress district level exposure (i.e. SERate $_d^{PRE} \times \text{FracExposed}_t$), on each of the dependent variables. Controls include the percent of students in a district belonging to each racial group, receiving FRL and classified as male. Additionally, these models control for tax base wealth per-pupil and the percent of tax base wealth that is residential. Data from the years 1999-00 to 2009-10 are used in these regressions. The sample includes districts that served between 6.6 and 21.5 percent of their students in SE in 2005.

Table A.9 The Impact of Policy on Types of Services and Accommodations

		Regular			
		Classroom	<u>Unmodif</u>	ied Exam	Ever
	SE Removal	$(\geq 79 \% \text{ day})$	Math	Reading	Disciplined
	(1)	(2)	(3)	(4)	(5)
Panel A: F	ull Sample				
Treatment	0.00826	0.00632	0.00759	0.00518	-0.00165
	(0.00192)	(0.00270)	(0.00251)	(0.00266)	(0.00158)
	[0.0372]	[0.0285]	[0.0341]	[0.0233]	[-0.00742]
Mean (Y)	0.275	0.670	0.440	0.455	0.405
N	$227,\!555$	$227,\!555$	$227,\!555$	$227,\!555$	$227,\!555$
Panel B: H	igh-Impact San	nple			
Treatment	0.00958	0.00737	0.00887	0.00627	-0.00132
	(0.00217)	(0.00281)	(0.00272)	(0.00283)	(0.00162)
	[0.0431]	[0.0332]	[0.0399]	[0.0282]	[-0.00595]
Mean (Y)	0.317	0.747	0.496	0.511	0.419
N	189,042	189,042	189,042	189,042	189,042
Panel C: C	ontinuing Spec	ial Education Se	ample		
Treatment	-	0.00165	0.00423	0.000912	-0.00264
	-	(0.00355)	(0.00281)	(0.00299)	(0.00178)
	-	[0.00741]	[0.0190]	[0.00410]	[-0.0119]
Mean (Y)	-	0.545	0.272	0.291	0.430
N	-	165,043	165,043	165,043	165,043

Note: This table shows DiD estimates of the impact of the policy on intermediate outcomes. Within each panel, each column reports estimates of δ_1 from a separate regression of Equation (1). The dependent variable is shown in the column headings. All dependent variables are measured in the year each student was expected to be in 9th grade. We identify a student as ever being disciplined in that year if the student had an in school or out of school suspension, expulsion, or other disciplinary action. Panel A presents estimates for the full sample. Panel B presents estimates from our high-impact sample. Panel C presents estimates from students in our main analysis sample who continue to be enrolled in special education (SE) during expected 9th grade. The sample includes 5th grade cohorts enrolled in SE between 1999-00 to 2004-05. See Table 2 for more detail on the sample and the full set of controls. The effect for the fully exposed student at the average district is shown in brackets, and is defined as the coefficient multiplied by 4.5. Standard errors in parentheses are clustered at the district level.

Table A.10 The Effect of the Special Education (SE) Enrollment Target on SE Removal and Educational Attainment (Low-Impact Samples)

	SE Re	emoval	High Scho	ol Completion	College Enrollment	
	(1)	(2)	$\overline{(3)}$	(4)	(5)	(6)
Panel A: Se	<u>evere Mallea</u>	<u>ıble Disabilit</u>	ties			
Treatment	-0.00145	-0.00172	-0.00397	-0.00794	-0.000293	-0.00145
	(0.00398)	(0.00316)	(0.00455)	(0.00444)	(0.00405)	(0.00382)
	[-0.00653]	[-0.00774]	[-0.0179]	[-0.0357]	[-0.00132]	[-0.00652]
Mean (Y)	0.0847	0.0847	0.653	0.653	0.180	0.180
N	17,280	17,280	17,280	17,280	17,280	17,280
Panel B: N	on-Malleable	e Disabilities	<u>s</u>			
Treatment	0.000718	0.00156	0.00325	0.00136	0.00155	0.00150
	(0.00259)	(0.00198)	(0.00263)	(0.00283)	(0.00402)	(0.00280)
	[0.00323]	[0.00700]	[0.0146]	[0.00611]	[0.00700]	[0.00673]
Mean (Y)	0.0490	0.0490	0.840	0.840	0.206	0.206
N	21,233	21,233	$21,\!233$	21,233	21,233	21,233
$\underline{Controls}$						
Full Contro	ls	X		X		X

Note: This table shows DiD estimates of the impact of the policy on SE removal and educational attainment. Within each panel, each column reports estimates of δ_1 from a separate regression of Equation (1). The dependent variable is shown in the column headings. Panel A includes students who had severe malleable disabilities, defined as having a malleable disability type (i.e. learning disabilities, speech impairments, other health impairments, or emotional disturbance), but spending greater than 50% of the day in the General Education (GE) classroom. Panel B includes students who had non-malleable disabilities, defined as autism, intellectual disability, orthopedic impairment, audio/visual impairments, deaf/blindness, and traumatic brain injury. The sample includes 5th grade cohorts enrolled in SE between 1999-00 to 2004-05. All specifications include cohort and district fixed effects. See Table 2 for more detail on the sample and the full set of controls. The effect for the fully exposed student at the average district is shown in brackets, and is defined as the coefficient multiplied by 4.5. Standard errors in parentheses are clustered at the district level.

Table A.11 The Effect of the Special Education (SE) Enrollment Target on SE Removal and Educational Attainment: Heterogeneity by Disability Type

	LD	Speech	OHI	ED	Autism	Physical	Cog. Severe
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Panel A: Sp	ecial Educat	ton Remova	<u>l</u>				
Treatment	-0.00985	-0.00821	0.000932	-0.00477	0.00137	0.00185	-0.00113
	(0.00222)	(0.00382)	(0.00332)	(0.00421)	(0.00422)	(0.00529)	(0.00171)
PP Change	-0.0443	-0.0369	0.00419	-0.0215	0.00618	0.00831	-0.00509
Mean (Y)	0.781	0.208	0.823	0.800	0.967	0.889	0.979
Panel B: Hi	gh School C	fompletion					
Treatment	-0.00428	-0.00648	-0.000123	-0.00881	-0.000289	-0.00353	0.00108
	(0.00173)	(0.00299)	(0.00380)	(0.00519)	(0.00807)	(0.00602)	(0.00449)
	[-0.0192]	[-0.0292]	[-0.000554]	[-0.0397]	-0.00130	-0.0159	0.00487
Mean (Y)	0.695	0.789	0.745	0.573	0.912	0.824	0.823
Panel C: Co	llege Enroll	ment					
Treatment	-0.00269	-0.00350	-0.00383	-0.0121	0.00865	0.00483	-0.00111
	(0.00141)	(0.00339)	(0.00341)	(0.00446)	(0.00914)	(0.00736)	(0.00275)
	[-0.0121]	[-0.0157]	[-0.0172]	[-0.0545]	[0.0389]	[0.0217]	[-0.00501]
Mean (Y)	0.304	0.535	0.350	0.249	0.288	0.408	0.0676
N	136,694	30,725	23,805	15,098	4,080	6,025	11,128

Note: This table shows DiD estimates of the impact of the policy on SE removal and educational attainment decisions for students by disability type (as of 5th grade). Within each panel, each column reports estimates of δ_1 from a separate regression of Equation (1). The dependent variable is shown in the panel headings and the disability type is shown in the column titles. LD is learning disabilities, speech is students with speech impairments, OHI is other health impairments, and ED is emotional disturbance. Physical disabilities include orthopedic impairments, auditory impairments, visual impairments, and deafness/blindness. Cognitively severe disabilities include autism, intellectual disabilities, and brain injuries. The sample includes 5th grade cohorts enrolled in SE between 1999-00 to 2004-05. See Table 2 for more detail on the sample and the full set of controls. The effect for the fully exposed student at the average district is shown in brackets, and is defined as the coefficient multiplied by 4.5. Standard errors in parentheses are clustered at the district level.

Table A.12 The Effect of the Special Education Enrollment Target on Special Education Removal and Educational Attainment: Heterogeneity by Classroom Setting

				Mainstream &	
			Resource	Resource	Resource
	Any Setting	Mainstream	Room $\leq 50\%$	Room $\leq 50\%$	Room≥50%
	(1)	(2)	(3)	(4)	(5)
Panal A. Sm	ecial Education	n Romoval			
$\frac{T \ anet \ A. \ Sp}{\text{Treatment}}$	$\frac{ectat Education}{0.00875}$	$\frac{t \ 1 t em b b d t}{0.0152}$	0.00778	0.00962	-0.00178
Heatment	(0.00373)	(0.0132)	(0.00223)	(0.00215)	(0.00178)
	\	\	,	/	'
3.6 (3.7)	[0.0394]	[0.0683]	0.0350	0.0433	-0.00799
Mean (Y)	0.298	0.624	0.200	0.317	0.0847
Panel B: Hi	gh School Com	unletion			
Treatment	-0.00520	-0.00811	-0.00331	-0.00491	-0.00771
110001110110	(0.00161)	(0.00240)	(0.00186)	(0.00162)	(0.00423)
PP Change	-0.0234	-0.0365	-0.0149	-0.0221	-0.0347
Mean (Y)	0.706	0.757	0.693	0.710	0.653
wican (1)	0.100	0.101	0.059	0.110	0.000
Panel C: Co	ollege Enrollme	nt			
Treatment	-0.00318	-0.00357	-0.00323	-0.00359	-0.00196
	(0.00142)	(0.00278)	(0.00147)	(0.00148)	(0.00353)
	[-0.0143]	[-0.0161]	[-0.0145]	[-0.0161]	[-0.00883]
Mean (Y)	0.339	0.481	0.306	0.354	0.180
N	206,322	52,079	136,963	189,042	17,280

Note: This table shows DiD estimates of the impact of the policy on Special Education (SE) removal and educational attainment decisions for students with malleable disabilities (i.e. learning disabilities, speech impairments, other health impairments, or emotional disturbance) in different classroom settings. Within each panel, each column reports estimates of δ_1 from a separate regression of Equation (1). The dependent variable is shown in the panel headings and the disability is shown in the column titles. Mainstream refers to students who spend the full day in the General Education (GE) classroom. Resource Room $\leq 50\%$ and Resource Room $\geq 50\%$ is students who sped less than or greater than 50% of the day in resource rooms (i.e. outside of the GE classroom), respectively. The sample includes 5th grade cohorts enrolled in SE between 1999-00 to 2004-05. See Table 2 for more detail on the sample and the full set of controls. The effect for the fully exposed student at the average district is shown in brackets, and is defined as the coefficient multiplied by 4.5. Standard errors in parentheses are clustered at the district level.

 $\begin{array}{ll} \textbf{Table A.13} \ \, \text{Likelihood of Being Enrolled in} \\ \text{Special Education in 5th Grade} \end{array}$

	(1)	(2)
FRL	0.0187	-0.00514
	(0.00119)	(0.000919)
3.5		
Migrant	-0.0302	-0.0124
	(0.00634)	(0.00384)
Male	0.0370	0.0369
Male	0.00.0	
	(0.000907)	(0.000930)
ELL	0.0306	-0.0332
LLL	(0.00620)	(0.00345)
	(0.00020)	(0.00040)
Native American	0.00100	-0.00767
	(0.00532)	(0.00530)
	(0.00002)	(0.00000)
Asian	-0.0491	-0.0473
	(0.00266)	(0.00269)
	(0.00_00)	(0.00200)
Black	0.00652	-0.0395
	(0.00226)	(0.00227)
	,	,
Hispanic	-0.0218	-0.0421
•	(0.00168)	(0.00156)
	,	,
Std Read (G3)		-0.0551
,		(0.00191)
		,
Std Math (G3)		-0.0279
,		(0.00121)
		,
Constant	-0.902	-0.420
	(0.0276)	(0.0185)
N	$1,\!345,\!875$	$1,\!345,\!875$
R-squared	0.038	0.106
, .		
Mean (Y)	0.0674	0.0674

Note: This table contains results from linear prediction models that predict SE participation in 5th grade based on demographics and achievement measured in 3rd grade. Standard errors in parentheses are clustered at the district level.

Table A.14 OLS and IV Estimates of the Impact of the Enrollment Target on Educational Attainment (Regular Math Test-Takers)

	First Stage	Reduced Form	OLS	IV
	(1)	(2)	(3)	(4)
	Special Education	,	. ,	
Dependent Variable:	Removal	High Scho	ool Completi	ion
Treatment	0.0128	-0.00718		
	(0.00311)	(0.00202)		
	[0.0574]	[-0.0323]		
Mean (Y)	0.516	0.749		
Special Education			-0.0534	-0.563
Removal			(0.00544)	(0.195)
	Special Education			
Dependent Variable:	Removal	College	Enrollment	,
Treatment	0.0128	-0.00408		
	(0.00311)	(0.00242)		
	[0.0574]	[-0.0184]		
Mean (Y)	0.516	0.478		
Special Education			0.0686	-0.320
Removal			(0.00483)	(0.216)
Kleibergen-Paap				
F-Statisitic	16.99			

Note: This table reports DiD estimates of the impact of the policy on Special Education (SE) removal and educational attainment (Columns 1 -2). This table also reports OLS and IV estimates of SE removal on educational attainment outcomes (Columns 3-4). The dependent variable is shown in the panel headings. The sample includes 5th grade cohorts enrolled in SE between 1999-00 to 2004-05 in our high-impact sample who were taking the regular math test at baseline (i.e. 4th grade) (N=76,238). See Table 2 for more detail on the sample and for the full list of controls used. Standard errors in parentheses are clustered by district.

Table A.15 Triple-Difference Estimates for Special Education Placement and Educational Attainment for Regular Math Test-Takers in 4th Grade only

	SE Removal		College Enrolled
	(1)	(2)	(3)
Treatment	0.0149	-0.00706	-0.00330
	(0.00305)	(0.00208)	(0.00240)
Treatment \times Std Test Score (G4)	0.00440	0.000240	0.00160
	(0.000968)	(0.000753)	(0.000851)
Mean (Y)	0.516	0.749	0.478
N	76238	76238	76238

Note: This table contains results obtained from a triple difference model where we augment Equation (1) by including a term that interacts 4th grade standardized math test scores with treatment and including lagged 4th grade standardized math test scores. See Table 2 for the full list of controls and information about each of the outcome variables. The sample for these regressions includes students who were taking the unmodified math exam during 4th grade in SE cohorts between 2000 and 2005. Standard errors in parentheses are clustered at the district level.

Table A.16 The Effect of the Enrollment Target on Special Education Placement and Educational Attainment –Accounting for Differences in District-Level Demographics (High-Impact Sample)

	(1)	(2)	(0)	(4)	(F)		
	(1)	(2)	(3)	(4)	(5)		
D 1.4.0		ъ.					
	ecial Educati	on Removal					
Treatment	0.00958	0.00926	0.00864	0.00940	0.00955		
	(0.00217)	(0.00240)	(0.00243)	(0.00215)	(0.00236)		
	[0.0431]	[0.0417]	[0.0389]	[0.0423]	[0.0430]		
Mean (Y)	0.317	0.317	0.317	0.317	0.317		
Panel B: Hi	gh School Co	mpletion					
Treatment	-0.00497	-0.00382	-0.00422	-0.00463	-0.00452		
	(0.00163)	(0.00160)	(0.00173)	(0.00154)	(0.0071)		
	[-0.0224]	[-0.0172]	[-0.0190]	[-0.0209]	[-0.0203]		
Mean (Y)	0.710	0.710	0.710	0.710	0.710		
Panel C: Co	$ollege\ Enrollm$	nent					
Treatment	-0.00363	-0.00341	-0.00388	-0.00347	-0.00398		
	(0.00149)	(0.00155)	(0.00181)	(0.00144)	(0.00167)		
	[-0.0163]	[-0.0153]	[-0.0175]	[-0.0156]	[-0.0179]		
Mean (Y)	0.354	0.354	0.354	0.354	0.354		
$\underline{Controls}$							
$f(t) \times \text{Fracti}$	ion Hispanic	X					
$f(t) \times \text{Cohort Size}$ X							
$f(t) \times \text{Fracti}$	ion FRL			X			
$f(t) \times \text{Fracti}$	ion Rural				X		

Note: This table shows DiD estimates of the impact of the policy on the likelihood of Special Education (SE) removal and educational attainment decisions. Within each panel, each column reports estimates of δ_1 from a separate regression of Equation (1). The dependent variable is shown in the panel headings. The sample includes 5th grade cohorts enrolled in SE between 1999-00 to 2004-05 in our high-impact sample. See Table 2 for more detail on the sample and the full set of controls. In column (1) we present the main results from Tables 2 and 3 for comparison. In columns (2)-(5) we include linear time trends that vary by the fraction of the district that was Hispanic in 2004-05, the total cohort size in 2004-05, fraction FRL, and fraction rural in 2004-05. The effect for the fully exposed student at the average district is shown in brackets, and is defined as the coefficient multiplied by 4.5. Standard errors in parentheses are clustered at the district level.

Table A.17 General Education Students: Heterogeneity by Baseline Achievement (4th Grade)

Panel A: R	leading Tes	st Score Q	uintiles						
	≤ 20	20-40	40-60	60-80	≥ 80				
	(1)	(2)	(3)	(4)	(5)				
High School	High School Completion								
Treatment	-0.00212	-0.00179	-0.000827	-0.000286	-0.000121				
	(0.00151)	(0.00130)	(0.00108)	(0.000843)	(0.000790)				
	[-0.00954]	[-0.00805]	[-0.00372]	[-0.00129]	[-0.000543]				
Mean (Y)	0.618	0.771	0.843	0.891	0.921				
College Enre	ollment								
Treatment	-0.00121	-0.00486	-0.00477	-0.00210	-0.000220				
	(0.00146)	(0.00154)	(0.00133)	(0.00116)	(0.00116)				
	[-0.00547]	[-0.0219]	[-0.0214]	[-0.00947]	[-0.000988]				
Mean (Y)	0.388	0.555	0.657	0.734	0.785				
,									
N	230,051	263,376	238,515	253,030	204,293				
Panel B: N	Iath Test S	Score Quin	tiles						
	≤ 20	20-40	40-60	60-80	≥ 80				
	(1)	(2)	(3)	(4)	(5)				
High School	l Completion	$\overline{\imath}$							
Treatment	-0.00296	-0.00269	-0.00121	0.000240	-0.000847				
	(0.00162)	(0.00120)	(0.00107)	(0.000992)	(0.000869)				
PP Change	-0.0133	-0.0121	-0.00546	0.00108	-0.00381				
Mean (Y)	0.605	0.769	0.844	0.889	0.927				
College Enre	ollment								
Treatment	-0.00253	-0.00406	-0.00211	-0.00234	-0.00128				
	(0.00151)	(0.00150)	(0.00136)	(0.00122)	(0.00121)				
	[-0.0114]	[-0.0183]	[-0.00949]	[-0.0105]	[-0.00574]				
Mean (Y)	0.398	0.553	0.645	0.723	0.783				
(1)	3.000	3.000	3.0 -9						
N	230,607	245,996	241,893	246,959	223,957				

Note: This table shows DiD estimates of the impact of the policy on high school completion and college enrollment for General Education (GE) students split by their baseline achievement level. Panel A shows differences across students in their reading achievement quintile, as measured in 4th grade. Panel B shows differences across students in their math achievement quintile, as measured in 4th grade. Within each panel, each column reports estimates of δ_1 from a separate regression of Equation (1). The dependent variable is shown in the panel headings. The sample includes 5th grade GE cohorts enrolled between 1999-00 to 2004-05. See Table 2 for more detail on the full set of controls. The effect for the fully exposed student at the average district is shown in brackets, and is defined as the coefficient multiplied by 4.5. Standard errors in parentheses are clustered at the district level.

Table A.18 The Effect of the Special Education Enrollment Target on College Enrollment - National Student Clearinghouse Cohorts (High-Impact Sample)

	(1)	(2)	(3)	(4)	(5)
Panel A: Co	llege Enroll	ment			
Treatment	-0.00340	-0.00412	-0.00448	-0.00459	-0.00460
	(0.00155)	(0.00152)	(0.00155)	(0.00153)	(0.00153)
	[-0.0153]	,	[-0.0202]	[-0.0206]	[-0.0207]
Mean (Y)	0.303	0.303	0.303	0.303	0.303
()					
Panel B: Co	llege Enroll	ment - Nati	onal Studen	t Clearinghe	ouse
Treatment	-0.00254	-0.00332	-0.00375	-0.00369	-0.00370
	(0.00156)	(0.00153)	(0.00154)	(0.00151)	(0.00152)
	[-0.0114]	/	/	,	` /
Mean (Y)	0.322	0.322	0.322	0.322	0.322
()					
N	156,717	156,717	156,717	156,717	156,717
$\underline{Controls}$					
Year FE	X	X	X	X	X
District FE	X	X	X	X	X
Individual Demo		X	X	X	X
Individual D	isability		X	X	X
District-Coh	·			X	X
District Fina					X

Note: This table shows DiD estimates of the impact of the policy on college enrollment. Within each panel, each column reports estimates of δ_1 from a separate regression of Equation (1). The dependent variable is shown in panel headings. College enrollment is now measured within two years of actual high school graduation. Panel A includes in-state college enrollment. Panel B includes in-state and out-of-state college enrollment using National Student Clearinghouse data. This sample includes 5th grade cohorts enrolled in Special Education (SE) between 2000-01 to 2004-05 in our high-impact sample. See Table 2 for more detail on the sample and the full set of controls. The effect for the fully exposed student at the average district is shown in brackets, and is defined as the coefficient multiplied by 4.5. Standard errors in parentheses are clustered at the district level.

Table A.19 IV Estimates of the Impact of Special Education Removal on High School Exit Exam Outcomes and Educational Attainment (High-Impact Sample)

	Took I	HS Exit	Pass	HS Exit		
	Math	Reading	Math	Reading	Graduated HS	College Enrolled
	(1)	(2)	(3)	(4)	(5)	(6)
Special Education Removal	0.704 (0.209)	0.707 (0.215)	-0.330 (0.293)	-0.093 (0.156)	-0.519 (0.183)	-0.379 (0.180)
Mean (Y)	0.418	0.421	0.526	0.844	0.710	0.354
N	189,042	189,042	78,921	79,676	189,042	189,042

Note: This table reports IV estimates of Special Education (SE) removal on taking the high school (HS) exit exam, passing the HS exit exam (conditional on taking it), HS completion, and enrolling in college. The sample includes 5th grade cohorts enrolled in SE between 1999-00 to 2004-05 in our high-impact sample. See Table 2 for more detail on the sample and the full set of controls. Standard errors in parentheses are clustered at the district level.

Table A.20 Heterogeneity by Predicted Likelihood of Taking the High School Exit Exam

	Quartiles of Predicted Likelihood								
	•	of Taking H							
	≤ 25	25-50	50-75	≥ 75					
	(1)	(2)	(3)	(4)					
		_	_						
		tion Remov							
Treatment	0.00713	0.00891	0.00819	0.0111					
	(0.00156)	(0.00228)	(0.00321)	(0.00367)					
	[0.0321]	[0.0401]	[0.0369]	[0.0499]					
Mean (Y)	0.0868	0.147	0.250	0.614					
Panel B: To	$ook\ High\ Sc$	hool Exit Ex	cam						
Treatment	0.00594	0.00844	0.00738	0.00193					
	(0.00194)	(0.00265)	(0.00326)	(0.00329)					
	[0.0267]	[0.0380]	[0.0332]	[0.00870]					
Mean (Y)	0.117	0.219	0.367	0.678					
Panel C: H	igh School (Completion							
Treatment	-0.00318	-0.00235	-0.00300	-0.00786					
	(0.00223)	(0.00260)	(0.00206)	(0.00248)					
	[-0.0143]	[-0.0106]	[-0.0135]	[-0.0354]					
Mean (Y)	0.688	0.678	0.715	0.791					
Panel D: C	ollege Enrol	llment							
Treatment	-0.00237	-0.00212	-0.00166	-0.00388					
	(0.00166)	(0.00233)	(0.00236)	(0.00323)					
	[-0.0107]	[-0.00954]	[-0.00746]	[-0.0174]					
Mean (Y)	0.162	0.250	0.348	0.548					
N	56,746	56,950	56,872	56,987					
A7 / CD1: / 11			, C , 1	1. 0 . 1					

Note: This table shows DiD estimates of the impact of the policy on Special Education (SE) removal and educational attainment decisions for students with different likelihoods of taking the high school exit exam. We use the full set of controls (described in Table 2) to predict the likelihood of taking both the math and reading exit exams. This likelihood is then split into quartiles, from the lowest likelihood of taking the exams in column (1) to the highest likelihood in column (4). Within each panel, each column reports estimates of δ_1 from a separate regression of Equation (1). The dependent variable is shown in the panel headings. The sample includes 5th grade cohorts enrolled in SE between 1999-00 to 2004-05. See Table 2 for more detail on the sample and the full set of controls. The effect for the fully exposed student at the average district is shown in brackets, and is defined as the coefficient multiplied by 4.5. Standard errors in parentheses are clustered at the district level.