## Online Appendix Figures and Tables - Greaves and Sibieta (2014)

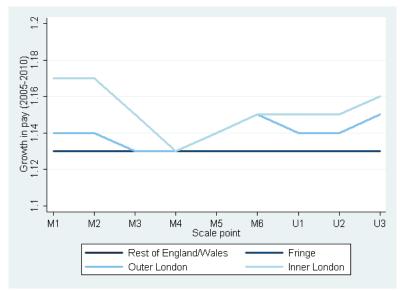


Figure 1: Growth in teacher pay between 2005-2010

Note: Scale point refers to the teacher pay scale (ranging from lowest to highest). Source: School Teachers Pay and Conditions Document.

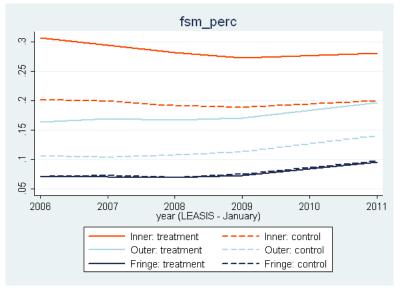


Figure 2: Percentage of pupils that are eligible for free school meals over time

Note: Sample includes primary schools within 2km of each boundary. 'Treatment' refers to schools on the high-pay side of the boundary. Source: National Pupil Database and LEASIS.

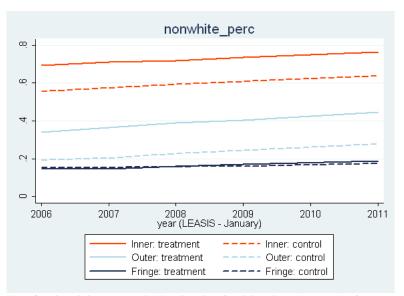


Figure 3: Percentage of pupils that are non-white over time

Note: Sample includes primary schools within 2km of each boundary. 'Treatment' refers to schools on the high-pay side of the boundary. Source: National Pupil Database and LEASIS.

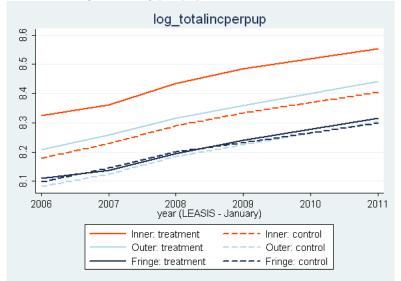


Figure 4: Log per-pupil income over time

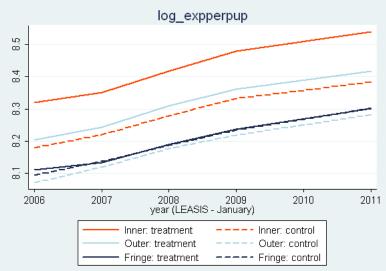


Figure 5: Log expenditure per-pupil over time

Note: Sample includes primary schools within 2km of each boundary. 'Treatment' refers to schools on the high-pay side of the boundary. Source: National Pupil Database and LEASIS.

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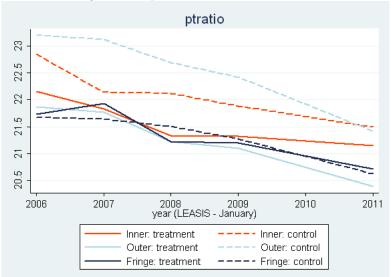


Figure 6: Pupil-teacher ratio over time

Note: Sample includes primary schools within 2km of each boundary. 'Treatment' refers to schools on the high-pay side of the boundary. Source: National Pupil Database and LEASIS.

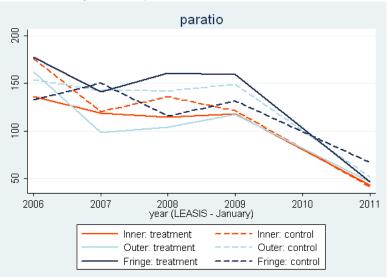


Figure 7: Pupil-assistant ratio over time

Note: Sample includes primary schools within 2km of each boundary. 'Treatment' refers to schools on the high-pay side of the boundary. Source: National Pupil Database and LEASIS.

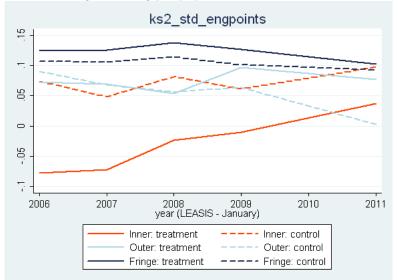


Figure 8: Log per-pupil income over time

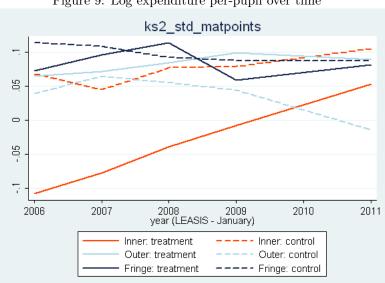


Figure 9: Log expenditure per-pupil over time

Note: Sample includes primary schools within 2km of each boundary. 'Treatment' refers to schools on the high-pay side of the boundary. Source: National Pupil Database and LEASIS.

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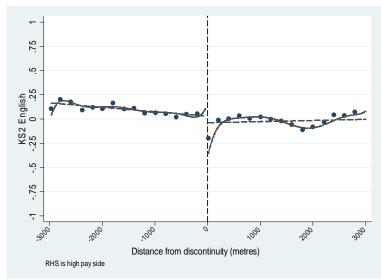
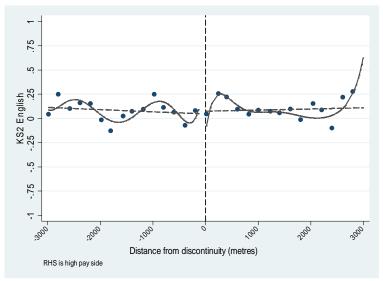


Figure 10: Relationship between distance to boundary and English test scores, inner London

Note: Dashed line represents linear specification estimated either side of boundary, solid line is based on a 7th order polynomial and dots are local averages by 200m from the pay zone boundary.

Figure 11: Relationship between distance to boundary and English test scores, outer London



Note: Dashed line represents linear specification estimated either side of boundary, solid line is based on a 7th order polynomial and dots are local averages by 200m from the pay zone boundary.

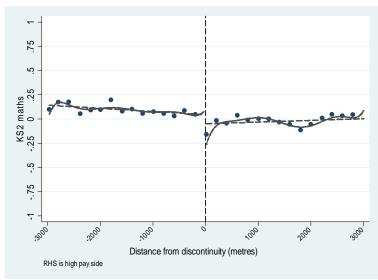
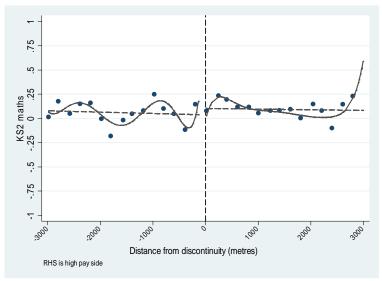


Figure 12: Relationship between distance to boundary and maths test scores, inner London

Note: Dashed line represents linear specification estimated either side of boundary, solid line is based on a 7th order polynomial and dots are local averages by 200m from the pay zone boundary.

Figure 13: Relationship between distance to boundary and maths test scores, outer London



Note: Dashed line represents linear specification estimated either side of boundary, solid line is based on a 7th order polynomial and dots are local averages by 200m from the pay zone boundary.

Characteristic	England	London	Inner			Outer	/		Fringe		
			Inside	Outside	Difference	Inside	Outside	Difference	Inside	Outside	<b>D</b> <i>i</i> fference
Prop. FSM	0.16(0.15)	0.21(0.16)	0.29(0.15)	0.20(0.13)	0.09***	0.17(0.13)	0.11(0.09)	0.06***	0.08(0.07)	0.08(0.08)	0
Prop. SEN (no s.)	0.23(0.11)	0.23(0.11)	0.27(0.11)	0.24(0.11)	0.03***	0.23(0.11)	0.22(0.10)	0.02**	0.21(0.10)	0.21(0.11)	0
Prop. SEN (s.)	0.02(0.02)	0.02(0.02)	0.02(0.02)	0.02(0.02)	0	0.02(0.02)	0.02(0.02)	0.00*	0.02(0.02)	0.02(0.02)	$0.00^{***}$
Prop. EAL	0.19(0.24)	0.30(0.27)	0.47(0.23)	0.37(0.27)	$0.10^{***}$	0.20(0.16)	0.10(0.08)	$0.10^{***}$	0.07(0.11)	0.07(0.10)	0
Prop. non-white	0.34(0.30)	0.50(0.31)	0.72(0.22)	0.59(0.28)	$0.13^{***}$	0.39(0.19)	0.23(0.12)	$0.16^{***}$	0.16(0.12)	0.16(0.13)	0
FTE Pupils (nursery to KS4)	280.6 (125.5)	310.9 (119.7)	349.7 (117.2)	351.9 (118.5)	-2.2	319.4 (121.7)	265.3(96.1)	$54.2^{***}$	259.8 (119.8)	250.2 (110.2)	9.6
IMD rank	0.54(0.24)	0.46(0.24)	0.27(0.14)	0.45(0.18)	-0.18***	0.50(0.19)	0.62(0.19)	$-0.12^{***}$	0.73(0.17)	0.70 (0.17)	$0.03^{**}$
IMD rank (education)	0.56(0.20)	0.56(0.19)	0.51(0.17)	0.58(0.17)	-0.07***	0.53(0.22)	0.52(0.21)	0.01	0.62(0.22)	0.59(0.22)	$0.03^{**}$
IMD rank (employment)	0.58(0.22)	0.52(0.22)	0.36(0.15)	0.51(0.17)	-0.15***	0.55(0.18)	0.64(0.19)	-0.09***	0.75(0.16)	0.72(0.18)	$0.03^{**}$
IMD rank (income)	0.51(0.24)	0.42(0.24)	0.24(0.15)	0.39(0.18)	-0.14***	0.45(0.20)	0.57(0.18)	-0.12***	0.68(0.16)	0.67(0.18)	0.02
Prop. low IMD rank (education)	0.21(0.27)	0.18(0.25)	0.19(0.25)	0.14(0.18)	$0.05^{***}$	0.28(0.32)	0.29(0.31)	-0.01	0.19(0.27)	0.21(0.26)	-0.03
Prop. low IMD rank (employment)	0.21(0.28)	0.30(0.30)	0.50(0.28)	0.24(0.22)	$0.26^{***}$	0.22(0.25)	0.13(0.19)	$0.09^{***}$	0.05(0.13)	0.08(0.13)	-0.03***
Prop. low IMD rank (income)	0.30(0.34)	0.43(0.36)	0.72(0.27)	0.44(0.31)	$0.28^{***}$	0.36(0.32)	0.19(0.24)	$0.18^{***}$	0.08(0.16)	0.11(0.18)	-0.03**
IDACI rank	0.48(0.25)	0.38(0.24)	0.21(0.14)	0.35(0.18)	$-0.15^{***}$	0.40(0.19)	0.53(0.18)	-0.13***	0.66(0.17)	0.65(0.18)	0.01
KS2 total points (standardised)	0.06(0.38)	0.05(0.38)	-0.04(0.36)	0.08(0.36)	-0.12***	0.09(0.34)	0.05(0.36)	0.04	0.11(0.37)	0.11(0.36)	0
KS2 English (standardised)	0.06(0.37)	0.06(0.37)	-0.03(0.35)	0.07(0.36)	-0.10***	0.07(0.34)	0.06(0.35)	0.02	0.12(0.36)	0.10(0.36)	0.02
KS2 maths (standardised)	0.04(0.36)	0.04(0.37)	-0.04(0.34)	0.07(0.37)	-0.11***	0.08(0.33)	0.04(0.35)	0.04*	0.08(0.35)	0.10(0.34)	-0.01
Total income per pupil (log)	8.29(0.22)	8.34(0.22)	8.43(0.17)	8.29(0.17)	$0.14^{***}$	8.32(0.18)	8.19(0.16)	$0.13^{***}$	8.20(0.18)	8.20(0.19)	0
Total expenditure per pupil (log)	8.28(0.22)	8.33(0.22)	8.42(0.17)	8.28(0.17)	$0.14^{***}$	8.31(0.18)	8.17(0.16)	$0.13^{***}$	8.20(0.18)	8.19(0.19)	0
Pupil teacher ratio	21.3(3.2)	21.6(3.1)	21.6(3.0)	22.1(3.0)	-0.5***	21.3(3.0)	22.6(3.0)	-1.3***	21.4(3.1)	21.3(3.3)	0
Pupil-assistant ratio	120.6(200.6)	111.5(174.0)	106.0(148.3)	119.0(167.6)	-12.9*	105.7(213.8)	127.8(148.8)	-22.1*	137.1 (177.6)	119.4(173.4)	17.7
Teacher-assistant ratio	5.5(9.1)	5.0(7.7)	4.8(6.7)	5.3(7.7)	-0.5*	4.9(9.5)	5.5(6.5)	-0.7	6.2(7.9)	5.5(8.4)	0.8
Prop. cross LA boundary	0.06(0.10)	0.08(0.12)	0.11(0.13)	0.11(0.12)	0.01*	0.09(0.10)	0.07(0.09)	0.01**	0.06(0.09)	0.04(0.09)	$0.02^{**}$
Prop. cross pay region boundary	0.03(0.07)	0.04(0.08)	0.08(0.11)	0.08(0.11)	-0.01	0.06(0.08)	0.07(0.09)	0	0.11(0.15)	0.08(0.13)	$0.03^{***}$
Number of obs	21912	11791	1830	1352		711	565		600	677	
Number of schools	4428	2361	366	271		143	113		120	136	

Table 1: Summary statistics: within 2km of the boundary (all years)

Note: \* denotes significance at 10 percent; \*\* denotes significance at 5 percent; \*\*\* denotes significance at 1 percent. The mean characteristics for schools in England, London and within 2km of the inner London pay boundary, outer London pay boundary and fringe London pay boundary are reported. Standard deviations are reported in brackets. The sample includes all primary schools that are present in the National Pupil Database in all of the academic years 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2010/2011. The sample size varies slightly between rows, where individual schools have missing data.

Table 2: Difference in 0	Outcomes across I	nner/Outer London E	Soundary in 2011: within	n 2km of the boundary
	D 1107	010	T1TT 1 (	

OutcomesbResourcesFunding per pupil (log)0.14Pupil:Teacher Ratio-0.33Pupil:Assistant Ratio1.00	SE 9 0.01***	b	SE	b	SE	b	SE
Funding per pupil (log)0.14Pupil:Teacher Ratio-0.32	0 0.01***						
Pupil:Teacher Ratio -0.33	0 0.01***						
1	5 0.01	0.088	0.02***	0.092	$0.02^{***}$	0.114	$0.02^{***}$
Pupil:Assistant Ratio 1.00	28 0.26	-0.149	0.51	-0.302	0.52	-0.796	0.44
	4 2.34	3.018	4.97	0.557	2.76	1.261	3.19
Teacher pay							
Teacher salary $(\pounds)$ 2427.	77 250.17***	2415.978	455.84***	2483.52	432.12***	2448.856	429.84***
Has additional responsibilities 0.02	2 0.02	0.035	0.04	0.083	$0.04^{*}$	0.061	0.04
Spine point -0.62	$0.16^{***}$	-0.05	0.34	0.25	0.31	0.025	0.34
Pupil attainment							
KS2 English (std) -0.00	54 0.03*	0.056	0.04	0.073	$0.03^{*}$	0.01	0.04
KS2 Maths (std) -0.03							

Note: \* denotes significance at 10 percent; \*\* denotes significance at 5 percent; \*\*\* denotes significance at 1 percent. \*\*\* denotes significance at 5 percent; \*\*\* denotes significance at 1 percent. The unit of observation is a primary school. The sample includes all primary schools that are present in the National Pupil Database in all of the academic years 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2010/2011 and where dependent variable is observed, within 2km of a pay area boundary. The coefficient reported represents the percent increase in expenditure per pupil associated with the high-pay side of the boundary. OLS, FILM, and Matching specifications additional account for observable characteristics of the school: percentage of pupils leighble for free school meals, with English as an additional language, that are non-white, and have a special educational need, the number of pupils in the school, dummy variables for region (North-East London, South-East London), rank of index of multiple deprivation and rank of income deprivation affecting children index. FILM and Matching additionally account for distance to the relevant boundary.

Table 3: Difference in Outcomes across Outer/Fringe London Boundary in 2011: within 2km of the boundary

	Raw d	ifference	0	LS	FI	LM	Mate	ching
Outcomes	b	SE	b	SE	b	SE	b	SE
Resources								
Funding per pupil (log)	0.139	0.02***	0.13	$0.02^{***}$	0.117	0.01***	0.108	0.03**
Pupil:Teacher Ratio	-0.884	$0.37^{*}$	-0.976	0.56	-0.806	0.6	-0.775	0.66
Pupil:Assistant Ratio	-5.231	6.36	-2.238	7.42	-4.458	8.97	-3.459	11.29
Teacher pay								
Teacher salary (£)	2524.479	439.67***	1868.221	524.52**	1527.09	$544.82^{*}$	2100.428	724.80**
Has additional responsibilities	0.091	$0.02^{***}$	0.062	0.03	0.047	0.04	0.038	0.03
Spine point	0.258	0.23	0.377	0.49	0.465	0.34	0.423	0.31
Pupil attainment								
KS2 English (std)	0.067	0.04	0.153	0.04***	0.171	0.03***	0.097	0.07
KS2 Maths (std)	0.096	$0.04^{*}$	0.171	$0.04^{***}$	0.203	$0.02^{***}$	0.156	$0.07^{*}$

Note: \* denotes significance at 10 percent; \*\* denotes significance at 5 percent; \*\*\* denotes significance at 1 percent. The unit of observation is a primary school. The sample includes all primary schools that are present in the National Pupil Database in all of the academic years 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2010/2011 and where dependent variable is observed, within 2km of a pay area boundary. The coefficient reported represents the percent increase in expenditure per pupil associated with the high-pay side of the boundary. OLS, FILM, and Matching specifications additional account for observable characteristics of the school: percentage of pupils eligible for free school meals, with English as an additional language, that are non-white, and have a special educational need, the number of pupils in the school, dummy variables for region (North-East London, South-East London, South-West London), rank of index of multiple deprivation and rank of income deprivation affecting children index. FILM and Matching additionally account for distance to the relevant boundary.

	Table 4. Results. Funding per pupil (in 1055). Within 2km of the boundary										
				ndon bour							
	Raw d	ifference	С	DLS	F	ILM	Mat	$\operatorname{tching}$			
Year	b	SE	b	SE	b	SE	b	SE			
2006	0.143	0.01***	0.092	0.02***	0.082	0.02***	0.1	0.02***			
2007	0.13	$0.01^{***}$	0.081	$0.02^{***}$	0.078	$0.02^{***}$	0.101	$0.02^{***}$			
2008	0.144	0.01***	0.087	$0.02^{***}$	0.088	$0.02^{***}$	0.102	$0.02^{***}$			
2009	0.148	0.01***	0.093	0.02***	0.092	$0.02^{***}$	0.102	0.02***			
2011	0.149	0.01***	0.088	0.02***	0.092	0.02***	0.114	0.02***			
		0	с. т	1 1	1						
Outer/fringe London boundary: within 2km											
	Raw difference			DLS		LM		tching			
Year	b	SE	b	SE	b	SE	b	SE			
2006	0.124	0.02***	0.114	0.02***	0.113	0.02***	0.118	0.04***			
2007	0.133	$0.02^{***}$	0.137	$0.03^{***}$	0.119	$0.02^{***}$	0.084	$0.03^{**}$			
2008	0.13	$0.02^{***}$	0.121	$0.02^{***}$	0.112	$0.02^{***}$	0.105	$0.03^{**}$			
2009	0.133	$0.02^{***}$	0.119	$0.02^{***}$	0.11	$0.03^{***}$	0.062	0.04			
2011	0.139	0.02***	0.13	0.02***	0.117	0.01***	0.108	0.03**			
		<b>D</b> • /		T 1 1	1		1				
		0 /			÷	: within 2					
		ifference		DLS		LM		tching			
Year	b	SE	b	SE	b	SE	b	SE			
2006	0.017	0.02	0.013	0.02	0.01	0.01	0.007	0.02			
2007	-0.01	0.02	0.004	0.01	0.003	0.01	-0.004	0.02			
2008	-0.005	0.02	-0.005	0.01	-0.008	0.01	-0.02	0.02			
2009	0.008	0.02	0.011	$0.00^{*}$	0.005	0.01	-0.01	0.02			
2011	0.013	0.02	0.015	0.01	0.005	0.01	0.012	0.02			

Table 4: Results: Funding per pupil (in logs): within 2km of the boundary

Note: \* denotes significance at 10 percent; \*\* denotes significance at 5 percent; \*\*\* denotes significance at 1 percent. The unit of observation is a primary school. The sample includes all primary schools that are present in the National Pupil Database in all of the academic years 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2010/2011 and where dependent variable (income per pupil) is observed, within 24 km of a pay area boundary. The coefficient reported represents the percent increase in expenditure per pupil associated with the high-pay side of the boundary. OLS, FILM, and Matching specifications additional account for observable characteristics of the school: percentage of pupils eligible for free school meals, with English as an additional language, that are non-white, and have a special educational need, the number of pupils in the school, dummy variables for region (North-East London, South-East London, South-West London), rank of index of multiple deprivation and rank of income deprivation affecting children index. FILM and Matching additionally account for distance to the relevant boundary.

	Table 5: Results: Expenditure per pupil (in logs): within 2km of the boundary										
		$\operatorname{Inner}/\operatorname$	outer Lo	ondon bou	ndary: w	ithin 2km					
	Raw d	ifference	(	DLS	F	ILM	Mat	tching			
Year	b	SE	b	SE	b	SE	b	SE			
2006	0.139	0.01***	0.085	0.02***	0.073	0.02***	0.089	0.02***			
2007	0.127	$0.01^{***}$	0.083	$0.02^{***}$	0.08	$0.02^{***}$	0.102	$0.02^{***}$			
2008	0.138	$0.01^{***}$	0.083	$0.02^{***}$	0.082	$0.02^{***}$	0.098	$0.02^{***}$			
2009	0.146	$0.01^{***}$	0.093	$0.02^{***}$	0.089	$0.02^{***}$	0.096	0.02***			
2011	0.157	0.01***	0.098	0.02***	0.1	0.02***	0.123	0.02***			
		Outen	<u>C.:</u>			<u>41.1 01 01 01 01 01 00 0000</u>					
Outer/fringe London boundary: within 2km											
	Raw difference OLS					LM	Matching				
Year	b	SE	b	SE	b	SE	b	SE			
2006	0.12	0.02***	0.118	0.02***	0.119	0.02***	0.122	0.04***			
2007	0.127	$0.02^{***}$	0.136	$0.03^{***}$	0.11	$0.02^{***}$	0.078	$0.03^{**}$			
2008	0.131	$0.02^{***}$	0.126	$0.02^{***}$	0.116	$0.02^{***}$	0.106	$0.04^{**}$			
2009	0.138	$0.02^{***}$	0.128	$0.02^{***}$	0.117	$0.03^{***}$	0.062	0.04			
2011	0.137	0.02***	0.131	0.02***	0.123	0.02***	0.118	0.03***			
		Fringe/out	or fring	Jondon	boundary	. within 9	km				
		ifference	0	DLS	ě	LM		tching			
Year	b	SE	b	SE	b	SE	b	SE			
2006	0.022	0.02	0.019	0.02	0.014	0.01	0.012	0.02			
2000 2007	-0.009	0.02 0.02	0.003	0.02 0.02	0.001	0.01	-0.004	0.02 0.02			
2001	0.002	0.02 0.02	0.000	0.02	-0.002	0.01	-0.016	0.02 0.02			
2009	0.002	0.02 0.02	0.005	0.01	-0.002	0.01	-0.015	0.02 0.02			
2005	0.001 0.005	0.02	0.005 0.007	0.01	-0.002	0.01	0.010	0.02 0.02			
Note: * der	otes significanc	e at 10 percent; The sample inc	** denotes si	gnificance at 5 p	ercent; *** der	otes significance a	t 1 percent.	The unit of observable of the academi			

Note: \* denotes significance at 10 percent; \*\* denotes significance at 5 percent; \*\*\* denotes significance at 1 percent. The unit of observation is a primary school. The sample includes all primary schools that are present in the National Pupil Database in all of the academic years 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2010/2011 and where dependent variable (expenditure per pupil) is observed, within 2km of a pay area boundary. The coefficient reported represents the percent increase in expenditure per pupil associated with the high-pay side of the boundary. OLS, FILM, and Matching specifications additional account for observable characteristics of the school: percentage of pupils eligible for free school meals, with English as an additional language, that are non-white, and have a special educational need, the number of pupils in the school, dummy variables for region (North-East London, South-East London, South-West London), rank of income deprivation affecting children index. FILM and Matching additionally account for distance to the relevant boundary.

	Table 6: Results: Pupil Teacher Ratio: within 2km of the boundary									
					ndary: wi					
		ifference		LS		LM		ching		
Year	b	SE	b	SE	b	SE	b	SE		
2006	-0.637	$0.27^{*}$	-0.807	$0.38^{*}$	-0.888	$0.35^{*}$	-1.099	$0.43^{*}$		
2007	-0.226	0.27	-0.135	0.41	-0.211	0.37	-0.589	0.43		
2008	-0.775	$0.27^{**}$	-0.537	0.47	-0.687	0.41	-1.06	$0.46^{*}$		
2009	-0.531	$0.25^{*}$	-0.26	0.51	-0.466	0.46	-0.6	0.41		
2011	-0.328	0.26	-0.149	0.51	-0.302	0.52	-0.796	0.44		
Outer/fringe London boundary: within 2km										
		ifference		LS		LM	Mat	ching		
Year	b	SE	b	SE	b	SE	b	SE		
2006	-1.368	0.38***	-1.283	$0.34^{**}$	-1.367	$0.48^{**}$	-2.5	0.76***		
2007	-1.536	$0.39^{***}$	-1.83	$0.81^{*}$	-1.632	$0.49^{**}$	-1.379	$0.65^{*}$		
2008	-1.426	$0.40^{***}$	-1.648	$0.72^{*}$	-1.287	0.73	-1.703	$0.78^{*}$		
2009	-1.423	$0.39^{***}$	-1.649	$0.70^{*}$	-1.816	0.96	-0.754	0.85		
2011	-0.884	$0.37^{*}$	-0.976	0.56	-0.806	0.6	-0.775	0.66		
		Fringe/out	-		-					
		ifference		LS		LM		ching		
Year	b	SE	b	SE	b	SE	b	SE		
2006	-0.198	0.4	-0.248	0.39	-0.302	0.28	-0.22	0.41		
2007	0.084	0.44	-0.242	0.55	-0.354	0.34	-0.291	0.47		
2008	-0.366	0.41	-0.511	0.4	-0.462	0.31	-0.17	0.43		
2009	-0.232	0.37	-0.366	0.5	-0.25	0.25	-0.112	0.4		
2011	-0.027	0.38	-0.208	0.29	-0.2	0.18	-0.241	0.43		

Note: \* denotes significance at 10 percent; \*\* denotes significance at 5 percent; \*\*\* denotes significance at 1 percent. The unit of observation is a primary school. The sample includes all primary schools that are present in the National Pupil Database in all of the academic years 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2010/2011 and where the dependent variable (the ratio of pupils to teachers) is observed, within 2km of a pay area boundary. The coefficient reported represents the percent increase in expenditure per pupil associated with the high-pay side of the boundary. OLS, FILM, and Matching specifications additional account for observable characteristics of the school: percentage of pupils eligible for free school meals, with English as an additional language, that are non-white, and have a special educational need, the number of pupils in the school, dummy variables for region (North-East London, South-West London), rank of index of multiple deprivation and rank of income deprivation affecting children index. FILM and Matching additionally account for distance to the relevant boundary.

	Raw di	fference	OI	$\mathbf{S}$	FI	LM	Mat	ching
Year	b	SE	b	SE	b	SE	b	SE
2006	-42.202	18.10*	-26.814	26.71	-22.504	27.77	-10.264	33.29
2007	-1.219	10.02	-7.359	17.92	1.086	18.17	-15.71	16.28
2008	-21.054	12.23	-28.293	22.4	-19.448	21.58	-14.967	22.64
2009	-2.859	13.26	-12.882	20.76	-2.47	22.91	-6.269	19.69
2011	1.004	2.34	3.018	4.97	0.557	2.76	1.261	3.19
<u> </u>		Outer	/fringe Lo	ndon bou	ındary: wi	thin 2km		
	Raw di	fference	OI OI		•	LM	Mat	ching
Year	b	SE	b	SE	b	SE	b	$\breve{SE}$
2006	-17.15	28.51	-3.201	28.55	11.302	28.5	-26.586	62.13
2007	-42.987	14.91**	-38.189	$17.61^{*}$	-26.379	19.28	-35.501	25.92
2008	-37.166	$15.15^{*}$	-43.89	$19.71^{*}$	-48.435	$22.45^{*}$	-68.744	28.51*
2009	-32.015	19.89	-19.978	29.79	-28.407	29.42	-23.193	33.53
2011	-5.231	6.36	-2.238	7.42	-4.458	8.97	-3.459	11.29
		Fringe/ou	uter-fringe	London	boundary:	within 2	km	
	Raw di	fference	ŎI		•	LM		ching
Year	b	SE	b	SE	b	SE	b	$\breve{SE}$
2006	46.707	24.12	37.087	32.7	36.473	25.93	38.592	26.05
2007	-5.578	28.38	-7.086	26.11	-8.692	16.89	4.801	31.71
2008	45.397	17.33**	36.794	15.41*	40.067	7.76***	46.428	$18.80^{*}$
2009	26.443	24.93	17.308	22.29	19.103	18.99	28.723	27.98
2011	-20.989	7.32**	-29.851	21.62	-39.36	$16.16^{*}$	-39.359	8.72***

 Table 7: Results: Pupil Assistant Ratio: within 2km of the boundary

 Inner/outer London boundary: within 2km

Note: \* denotes significance at 10 percent; \*\* denotes significance at 5 percent; \*\*\* denotes significance at 1 percent. The unit of observation is a primary school. The sample includes all primary schools that are present in the National Pupil Database in all of the academic years 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2010/2011 and where the dependent variable (the ratio of pupils to assistants) is observed, within 2km of a pay area boundary. The coefficient reported represents the percent increase in expenditure per pupil associated with the high-pay side of the boundary. OLS, FILM, and Matching specifications additional account for observable characteristics of the school: percentage of pupils eligible for free school meals, with English as an additional language, that are non-white, and have a special educational need, the number of pupils in the school, dummy variables for region (North-East London, South-East London), South of index of multiple deprivation and rank of income deprivation affecting children index. FILM and Matching additionally account for distance to the relevant boundary.

	Table 8: Results: Total pay for those whose main role is classroom teacher										
		In	nner/outer I	London boun	dary: with	iin 2km					
	Raw d	ifference	0	LS	F	ILM	Matching				
Year	b	SE	b	SE	b	SE	b	SE			
2011	2427.77	250.17***	2415.978	455.84***	2483.52	432.12***	2448.856	429.84***			
Outer/fringe London boundary: within 2km											
	Raw d	ifference	OLS		F	FILM		ching			
Year	b	SE	b	SE	b	SE	b	SE			
2011	2524.479	439.67***	1868.221	$524.52^{**}$	1527.09	$544.82^{*}$	2100.428	724.80**			
		Fring	e/outer-frin	ge London b	oundary: v	within 2km					
	Raw d	ifference	О	DLS	F	ILM	Matching				
Year	b	SE	b	SE	b	SE	b	SE			
2011	915.519	$462.64^{*}$	475.126	274.01	369.63	293.45	720.759	590.26			

Note: \* denotes significance at 10 percent; \*\* denotes significance at 5 percent; \*\*\* denotes significance at 1 percent. The unit of observation is a primary school. The sample includes all primary schools that are present in the National Pupil Database in all of the academic years 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2010/2011 and where dependent variable (expenditure per pupil) is observed, within 2km of a pay area boundary. The coefficient reported represents the increase in total pay for those whose main role is classified as classroom teacher (based on their full-time equivalent in each role) associated with the high-pay side of the boundary. OLS, FILM, and Matching specifications additional account for observable characteristics of the school: percentage of pupils eligible for free school meals, with English as an additional language, that are non-white, and have a special educational need, the number of pupils in the school, dummy variables for region (North-East London, South-East London), rank of index of multiple deprivation and rank of income deprivation affecting children index. FILM and Matching additionally account for distance to the relevant boundary.

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Table 9: Results: Spinepoint (grade) for those whose main role is classroom teacher											
	In	ner/outer	London	bound	lary: wit	thin 2k	m				
	Raw d	ifference	OI	$\mathbf{LS}$	$\operatorname{FII}$	$\mathbf{M}$	Matching				
Year	b	SE	b	SE	b	SE	b	SE			
2011	-0.622	0.16***	-0.05	0.34	0.25	0.31	0.025	0.34			
	Outer/fringe London boundary: within 2km										
	Raw d	ifference	OI	$\mathbf{LS}$	$\operatorname{FII}$	LM	Mate	ching			
Year	b	$\mathbf{SE}$	b	SE	b	SE	b	SE			
	D	ЫĽ	10								
2011	0.258	0.23	0.377	0.49	0.465	0.34	0.423	0.31			
				0.49	0.465	0.34	0.423	0.31			
	0.258		0.377					0.31			
	0.258 Fring	0.23	0.377	don bo		withir	n 2km	0.31			
	0.258 Fring	0.23 e/outer-fri	0.377 nge Lon	don bo	undary:	withir	n 2km				

Note: \* denotes significance at 10 percent; \*\* denotes significance at 5 percent; \*\*\* denotes significance at 1 percent. The unit of observation is a primary school. The sample includes all primary schools that are present in the National Pupil Database in all of the academic years 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2010/2011 and where dependent variable (expenditure per pupil) is observed, within 2km of a pay area boundary. The coefficient reported represents the increase in spinepoint (or grade) for those whose main role is classified as classroom teacher (based on their full-time equivalent in each role) associated with the high-pay side of the boundary. OLS, FILM, and Matching specifications additional account for observable characteristics of the school: percentage of pupils eligible for free school meals, with English as an additional language, that are non-white, and have a special educational need, the number of pupils in the school, dummy variables for region (North-East London, South-East London, South-West London), rank of index of multiple deprivation and rank of income deprivation affecting children index. FILM and Matching additionally account for distance to the relevant boundary.

	Inner/outer London boundary: within 2km										
	Raw	difference	(	OLS	F	ILM	Mat	ching			
Year	b	SE	b	SE	b	SE	b	SE			
2011	0.02	0.02	0.03	5 0.04	0.083	8 0.04*	0.061	0.04			
	(	Duter/fring	ge Lono	lon bou	ndary:	within 2	km				
		difference		OLS	0	ΊLΜ		ching			
Year	b	SE	b	SE	b	SE	b	SĔ			
2011	0.091	0.02***	0.06	2 0.03	0.047	7 0.04	0.038	0.03			
	Frin	ge/outer-fi	ringe L	ondon l	ooundar	v: within	n 2km				
		difference	ĬLM		ching						
Year	b	SE	b	SE	b	SE	b	SE			
2011	0.032	0.02	0.01	3 0.02	0.016	6 0.02	0.018	0.03			
school. The s 2008/2009, 24 resents the in equivalent in teristics of th cational need	sample includes all 010/2011 and when ncrease proportion each role) associat he school: percenta l, the number of pu	10 percent; ** denote primary schools that a re dependent variable of those with addition ed with the high-pay s ge of pupils eligible fo: pils in the school, dum f income deprivation a	re present in the (expenditure present in the al responsibility and the bound of th	ne National Pupi per pupil) is obse- ties, for those wh ndary. OLS, FIL eals, with Englis or region (North-	l Database in all o erved, within 2km nose main role is M, and Matching h as an additiona East London, So	of the academic yea 1 of a pay area bou classified as classro specifications addi 1 language, that ar uth-East London, S	rs 2005/2006, 200 andary. The coefficient teacher (base tional account for e non-white, and outh-West Londo	06/2007, 2007/2008, licient reported rep- id on their full-time r observable charac- have a special edu- n), rank of index of			
	Table	11: Results: To	otal pay fo	or those wh	ose main rol	le is teaching	assistant				
		Inner/o	uter Lon	idon boun	dary: with	nin 2km					
V	Raw diff		OL		-	LM		ching			
$\frac{\text{Year}}{2011}$	b 1556.0	$\frac{\text{SE}}{276.1^{***} 5}$	b 54.1	SE 540.9	$\frac{b}{562.2}$	$\frac{\text{SE}}{551.4}$	b 1082.0	$\frac{\text{SE}}{447.7^*}$			
2011	1000.0	210.1 0	04.1	040.5	502.2	001.4	1002.0	441.1			
		Outer/f	ringe Lo	ndon bour	ndary: wit	hin 2km					
	Raw diff		OL			LM		ching			
Year	b	SE	b	SE	b	SE	b	SE			
2011	2597.8	289.8*** 23	374.4	408.8***	2196.1	349.8***	2202.5	442.7***			
		Fringe/out	er-fringe	London b	oundary:	within 2km					
	Raw diff	0 /	OL:		e	LM	Matching				
Year											

Table 10: Results: Proportion with additional responsibilities, for those whose main role is classroom teacher

Note: \* denotes significance at 10 percent; \*\* denotes significance at 5 percent; \*\*\* denotes significance at 1 percent. The unit of observation is a primary school. The sample includes all primary schools that are present in the National Pupil Database in all of the academic years 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2010/2011 and where dependent variable (expenditure per pupil) is observed, within 2km of a pay area boundary. The coefficient reported represents the increase in total pay for those whose main role is classified as teaching assistant (based on their full-time equivalent in each role) associated with the high-pay side of the boundary. OLS, FILM, and Matching specifications additional account for observable characteristics of the school: percentage of pupils eligible for free school meals, with English as an additional language, that are non-white, and have a special educational need, the number of pupils in the school, dummy variables for region (North-East London, South-East London), rank of index of multiple deprivation and rank of income deprivation affecting children index. FILM and Matching additionally account for distance to the relevant boundary.

-2000.0

677.7\*

 $696.1^{*}$ 

-1600.0

2011

-1600.0

344.7\*\*\*

449.8\*\*\*

-1800.0

	Table 12. Results. Ro2 English Folios (564). within 2km of the boundary										
		Inner/oi		don bound	lary: wi	thin 2km					
	Raw d	ifference	(	DLS	F	ILM	Mate	$\operatorname{hing}$			
Year	b	SE	b	SE	b	SE	b	SE			
2006	-0.15	0.03***	0.014	0.06	0.05	0.04	-0.012	0.05			
2007	-0.114	$0.03^{***}$	0.047	0.05	0.068	0.04	-0.008	0.05			
2008	-0.105	$0.03^{***}$	0.011	0.04	0.004	0.03	-0.034	0.06			
2009	-0.071	$0.03^{**}$	0.063	0.05	0.076	$0.03^{*}$	0.036	0.04			
2011	-0.064	$0.03^{*}$	0.056	0.04	0.073	$0.03^{*}$	0.01	0.04			
Outer/fringe London boundary: within 2km											
	Raw d	ifference	(	DLS	F	ILM	Mate	hing			
Year	b	SE	b	SE	b	SE	b	SE			
2006	0.003	0.05	0.056	0.04	0.08	0.05	-0.092	0.11			
2007	0.011	0.05	0.071	$0.03^{*}$	0.091	$0.04^{*}$	0.125	0.08			
2008	-0.004	0.04	0.077	0.04	0.119	$0.04^{*}$	0.08	0.07			
2009	0.037	0.04	0.131	$0.04^{**}$	0.186	$0.07^{*}$	0.227	$0.09^{*}$			
2011	0.067	0.04	0.153	$0.04^{***}$	0.171	0.03***	0.097	0.07			
	F	ringe/oute	r-fringe	London bo	oundary:	within 2	ĸm				
	Raw d	ifference	(	DLS	FILM		Mate	hing			
Year	b	SE	b	SE	b	SE	b	SE			
2006	0.002	0.05	0.01	0.03	0.018	0.01	0.01	0.05			
2007	0.027	0.05	0.027	0.03	0.018	0.02	0.025	0.05			
2008	0.014	0.04	0.002	0.03	0.006	0.02	0.007	0.05			
2009	0.025	0.04	0.005	0.03	0	0.02	-0.022	0.05			
2011	0.011	0.04	0.012	0.03	0.01	0.03	-0.003	0.05			

Table 12: Results: KS2 English Points (std): within 2km of the boundary

Note: \* denotes significance at 10 percent; \*\* denotes significance at 5 percent; \*\*\* denotes significance at 1 percent. The unit of observation is a primary school. The sample includes all primary schools that are present in the National Pupil Database in all of the academic years 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2010/2011 and where the dependent variable (maths scores in Key Stage 2 tests) is observed, within 2km of a pay area boundary. The coefficient reported represents the percent increase in expenditure per pupil associated with the high-pay side of the boundary. OLS, FILM, and Matching specifications additional account for observable characteristics of the school: percentage of pupils eligible for free school meals, with English as an additional language, that are non-white, and have a special educational need, the number of pupils in the school, dummy variables for region (North-East London, South-West London), rank of index of multiple deprivation and rank of income deprivation affecting children index. FILM and Matching additionally account for distance to the relevant boundary.

	Tab	le 13: Results			/		indary				
		,		don bound	lary: wit	hin 2km					
	Raw d	ifference	С	m DLS	F	LM	Matching				
Year	b	SE	b	SE	b	SE	b	SE			
2006	-0.171	0.03***	-0.017	0.05	0.008	0.03	-0.054	0.05			
2007	-0.117	$0.03^{***}$	0.03	0.05	0.039	0.04	-0.025	0.05			
2008	-0.117	$0.03^{***}$	-0.011	0.04	-0.007	0.03	-0.052	0.06			
2009	-0.085	$0.03^{**}$	0.033	0.04	0.034	0.03	-0.022	0.06			
2011	-0.053	$0.02^{*}$	0.049	0.04	0.053	0.03	-0.008	0.04			
	Outer/fringe London boundary: within 2km										
	Raw difference		OLS		F	LM	Matching				
Year	b	SE	b	SE	b	SE	b	SE			
2006	0.058	0.05	0.13	0.03***	0.169	0.04***	0.052	0.1			
2007	0.014	0.04	0.067	0.04	0.113	$0.04^{**}$	0.126	0.07			
2008	0.027	0.04	0.132	$0.04^{**}$	0.182	$0.04^{***}$	0.133	0.07			
2009	0.059	0.04	0.127	$0.05^{*}$	0.175	$0.05^{**}$	0.173	$0.09^{*}$			
2011	0.096	$0.04^{*}$	0.171	$0.04^{***}$	0.203	$0.02^{***}$	0.156	$0.07^{*}$			
	I	Fringe/out	er-fringe	London be	oundary:	within 2k	m				
	Raw d	ifference	С	m PLS	F	ILM	Matching				
Year	b	SE	b	SE	b	SE	b	SE			
2006	-0.053	0.05	-0.049	0.02	-0.047	0.02*	-0.054	0.05			
2007	-0.004	0.05	-0.017	0.03	-0.026	0.01	-0.023	0.05			
2008	0.008	0.04	0.012	0.01	0.011	0.01	0.017	0.04			
2009	-0.028	0.04	-0.048	0.02	-0.04	$0.02^{*}$	-0.043	0.05			
2011	-0.007	0.04	-0.014	0.03	-0.019	0.02	-0.025	0.05			

Note: \* denotes significance at 10 percent; \*\* denotes significance at 5 percent; \*\*\* denotes significance at 1 percent. The unit of observation is a primary school. The sample includes all primary schools that are present in the National Pupil Database in all of the academic years 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2010/2011 and where the dependent variable (English scores in Key Stage 2 tests) is observed, within of the boundary. OLS, FILM, and Matching specifications additional account for observable characteristics of the school: percentage of pupils eligible for free school meals, with English as an additional language, that are non-white, and have a special educational need, the number of yation and rank of income deprivation affecting children index. FILM and Matching additionally account for distance to the relevant boundary.

	Inner/outer London boundary: within $2 \mathrm{km}$											
	Raw d	ifference	С	$\mathbf{LS}$	$\mathrm{FI}$	LM	Mat	ching				
Year	b	SE	b	SE	b	SE	b	SE				
2006	-0.171	0.03***	-0.016	0.05	0.014	0.03	-0.041	0.05				
2007	-0.117	$0.03^{***}$	0.031	0.05	0.047	0.04	-0.023	0.04				
2008	-0.117	$0.03^{***}$	-0.013	0.04	-0.013	0.03	-0.034	0.06				
2009	-0.085	$0.03^{**}$	0.035	0.04	0.044	0.03	-0.016	0.06				
2011	-0.053	$0.02^{*}$	0.047 0.04		0.054	0.03	0.004	0.04				
			<b></b>			1.1. 21						
Outer/fringe London boundary: within $2 \text{km}$												
	Raw d	ifference	OLS		$\mathrm{FI}$	LM	Matching					
Year	b	SE	b	SE	b	SE	b	SE				
2006	0.058	0.05	0.145	0.03***	0.17	0.04***	0.27	0.12*				
2007	0.014	0.04	0.087	$0.04^{*}$	0.138	$0.03^{***}$	0.139	0.12				
2008	0.027	0.04	0.15	$0.04^{***}$	0.191	$0.04^{***}$	0.234	$0.10^{*}$				
2009	0.059	0.04	0.164	$0.04^{**}$	0.22	$0.04^{***}$	0.175	0.09				
2011	0.096	$0.04^{*}$	0.174	$0.04^{***}$	0.21	0.02***	0.172	$0.07^{**}$				
	-	Fringe/out	er-fringe	London b	oundary:	within 2k	xm					
	Raw d	ifference	С	$\mathrm{LS}$	$\mathrm{FI}$	LM	Mat	ching				
Year	b	SE	b	SE	b	SE	b	SE				
2006	-0.053	0.05	-0.046	0.02	-0.042	0.02*	-0.064	0.05				
2007	-0.004	0.05	-0.014	0.03	-0.031	0.02	-0.022	0.05				
2008	0.008	0.04	0.014	0.02	0.008	0.01	0.005	0.04				
2009	-0.028	0.04	-0.042	0.02	-0.041	$0.02^{*}$	-0.05	0.05				

Table 14: Results: KS2 Maths Points (std): within 2km of the boundary, accounting for pupil:teacher ratio and pupil:assistant ratio

Note: \*\* denotes significance at 10 percent; \*\* denotes significance at 5 percent; \*\*\* denotes significance at 1 percent. The unit of observation is a primary school. The sample includes all primary schools that are present in the National Pupil Database in all of the academic years 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2010/2011 and where the dependent variable (maths scores in Key Stage 2 tests), pupil:teacher and pupil:assistant ratios are observed, within 2km of a pay area boundary. The coefficient reported reported reported reported negotiation of the school: percentage of pupils eligible for free school meals, with English as an additional language, that are non-white, and have a special educational need, the number of pupils in the school, dummy variables for region (North-East London, South-East London, South-West London), rank of index of multiple deprivation and rank of income deprivation affecting children index. FILM and Matching additionally account for distance to the relevant boundary. Pupil teacher ratio and pupil assistance ratio are accounted for linearly.

0.04

-0.025

0.03

-0.047

0.05

2011

-0.007

0.04

-0.011

	Inner/outer London boundary: within 2km									
	Raw difference		OLS		-	LM	Matching			
Year	b	SE	b	SE	b	SE	b	SE		
2006	-0.15	0.03***	0.016	0.06	0.059	0.04	0.009	0.05		
2007	-0.114	$0.03^{***}$	0.048	0.05	0.074	0.04	-0.006	0.05		
2008	-0.105	$0.03^{***}$	0.015	0.04	0.015	0.03	-0.024	0.06		
2009	-0.071	0.03**	0.064	0.05	0.083	$0.03^{*}$	0.038	0.04		
2011	-0.064	$0.03^{*}$	0.056	0.04	0.075	$0.03^{**}$	0.02	0.05		

Table 15: Results: KS2 English Points (std): within 2km of the boundary, accounting for pupil:teacher ratio and pupil:assistant ratio

	Outer/fringe London boundary: within 2km											
	Raw difference		OLS		F	ILM	Matching					
Year	b	SE	b	SE	b	SE	b	SE				
2006	0.003	0.05	0.068	0.04	0.096	0.05	0.139	0.13				
2007	0.011	0.05	0.085	$0.04^{*}$	0.123	$0.04^{**}$	0.121	0.12				
2008	-0.004	0.04	0.097	$0.04^{*}$	0.122	$0.04^{*}$	0.229	$0.10^{*}$				
2009	0.037	0.04	0.149	$0.04^{**}$	0.21	$0.07^{**}$	0.218	$0.10^{*}$				
2011	0.067	0.04	0.157	$0.04^{***}$	0.172	$0.03^{***}$	0.128	$0.06^{*}$				

Fringe/outer-fringe London boundary: within 2km									
	Raw difference		OLS		FILM		Matching		
Year	b	SE	b	SE	b	SE	b	SE	
2006	0.002	0.05	0.017	0.03	0.015	0.01	0.005	0.05	
2007	0.027	0.05	0.029	0.03	0.02	0.02	0.024	0.05	
2008	0.014	0.04	0.008	0.03	0.011	0.02	0.006	0.05	
2009	0.025	0.04	0.006	0.03	-0.001	0.02	-0.027	0.05	
2011	0.011	0.04	0.015	0.03	0.007	0.04	-0.022	0.06	

Note: \* denotes significance at 10 percent; \*\* denotes significance at 5 percent; \*\*\* denotes significance at 1 percent. The unit of observation is a primary school. The sample includes all primary schools that are present in the National Pupil Database in all of the academic years 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2010/2011 and where the dependent variable (English scores in Key Stage 2 tests), pupil:teacher and pupil:assistant ratios are observed, within 2km of a pay area boundary. The coefficient reported represents the percent increase in expenditure per pupil associated with the high-pay side of the boundary. OLS, FILM, and Matching specifications additional account for observable characteristics of the school: percentage of pupils eligible for free school meals, with English as an additional language, that are non-white, and have a special educational need, the number of pupils in the school, dummy variables for region (North-East London, South-East London), rank of index of multiple deprivation and rank of income deprivation affecting children index. FILM and Matching additionally account for distance to the relevant boundary. Pupil teacher ratio and pupil assistance ratio are accounted for linearly.

	o: Results: R		· · ·				~	oundary		
Fringe/outer-fringe London boundary within 1km										
	Raw dif	ference	OL	$\mathbf{S}$	$\operatorname{FII}$	LΜ	Matcl	ning		
Year	b	SE	b	SE	b	SE	b	SE		
2006	-0.02	0.06	-0.019	0.05	-0.032	0.03	-0.056	0.07		
2007	0.053	0.07	0.036	0.07	0.019	0.03	0.019	0.07		
2008	-0.017	0.06	-0.034	0.04	-0.027	0.03	-0.059	0.06		
2009	0.044	0.06	0.024	0.03	0.013	0.04	-0.003	0.07		
2011	-0.031	0.06	-0.003	0.05	-0.015	0.04	-0.029	0.06		
Fringe/outer-fringe London boundary: within 2km										
	Raw dif	ference	OL	$\mathbf{S}$	$\operatorname{FII}$	JM	Matcl	ning		
Year	b	SE	b	SE	b	SE	b	SE		
2006	-0.053	0.05	-0.049	0.02	-0.047	0.02*	-0.054	0.05		
2007	-0.004	0.05	-0.017	0.03	-0.026	0.01	-0.023	0.05		
2008	0.008	0.04	0.012	0.01	0.011	0.01	0.017	0.04		
2009	-0.028	0.04	-0.048	0.02	-0.04	$0.02^{*}$	-0.043	0.05		
2011	-0.007	0.04	-0.014	0.03	-0.019	0.02	-0.025	0.05		
	Fring	e/outer-i	fringe Lo	ndon b	oundary	within	3km			
	Raw dif	ference	OL	$\mathbf{S}$	$\operatorname{FII}$	LM	Matcl	ning		
Year	b	SE	b	SE	b	SE	b	SE		
2006	-0.024	0.04	-0.014	0.02	-0.016	0.02	-0.016	0.04		
2007	-0.003	0.04	0.001	0.02	-0.004	0.01	-0.012	0.04		
2008	-0.012	0.04	0.001	0.03	-0.012	0.02	-0.008	0.05		
2009	-0.045	0.04	-0.034	0.02	-0.04	$0.01^{*}$	-0.041	0.04		
2011	-0.039	0.04	-0.011	0.03	-0.025	0.02	-0.039	0.04		
Note: * denote	es significance at 1	10 percent: ** de	notes significance	at 5 percent:	*** denotes sign	ificance at 1 pe	rcent The unit of	f observation		

Table 16: Results: KS2 Maths Points (std): varying the measure of closeness to the Fringe boundary

Note: \* denotes significance at 10 percent; \*\* denotes significance at 5 percent; \*\*\* denotes significance at 1 percent. The unit of observation is a primary school. The sample includes all primary schools that are present in the National Pupil Database in all of the academic years 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2010/2011 and where the dependent variable (maths scores in Key Stage 2 tests), pupil:teacher and pupil.assistant ratios are observed, within xkm of a pay area boundary. The coefficient reported represents the increase in Maths scores associated with the highpay side of the boundary. OLS, FILM, and Matching specifications additional account for observable characteristics of the school: percentage of pupils eligible for free school meals, with English as an additional language, that are non-white, and have a special educational need, the number of pupils in the school, dummy variables for region (North-East London, South-East London, Newt-Mext Gondon), rank of index of multiple deprivation and rank of income deprivation affecting children index. FILM and Matching additionally account for distance to the relevant boundary.

	Fring	e/outer-	fringe Lo	ndon b	oundary:	within	1km		
	Raw dif	ference	OL	S	$\operatorname{FII}$	LM	Matcl	hing	
Year	b	SE	b	SE	b	SE	b	SE	
2006	0.018	0.07	0.006	0.05	-0.001	0.03	-0.021	0.07	
2007	0.123	0.07	0.101	0.08	0.076	0.05	0.087	0.08	
2008	0.004	0.06	-0.039	0.04	-0.02	0.02	-0.058	0.07	
2009	0.066	0.07	0.027	0.05	0.006	0.04	-0.056	0.08	
2011	-0.017	0.06	0.016	0.05	0.004	0.05	-0.021	0.07	
	<b>D</b>	. /	<u>с. т. т. т.</u>			:41:	01		
Fringe/outer-fringe London boundary: within 2km Raw difference OLS FILM Matching									
37			OLS		FILM		Matcl	0	
Year	b	SE	b	SE	b	SE	b	SE	
2006	0.002	0.05	0.01	0.03	0.018	0.01	0.01	0.05	
2007	0.027	0.05	0.027	0.03	0.018	0.02	0.025	0.05	
2008	0.014	0.04	0.002	0.03	0.006	0.02	0.007	0.05	
2009	0.025	0.04	0.005	0.03	0	0.02	-0.022	0.05	
2011	0.011	0.04	0.012	0.03	0.01	0.03	-0.003	0.05	
	Fring	a/outor_t	fringo Lo	ndon h	oundary:	within	3km		
	Raw dif		OL		FII		Matcl	hing	
Year	b	SE	b	SE	b	SE	b	SE	
2006	0.01	0.04	0.023	0.03	0.025	0.01*	0.022	0.04	
2007	0.006	0.04	0.009	0.02	0.005	0.02	0.003	0.04	
2008	0.01	0.04	0.007	0.03	0.007	0.01	0.008	0.04	
2009	-0.01	0.05	0.008	0.03	-0.013	0.02	-0.018	0.04	
2011	-0.012	0.04	0.017	0.03	0.006	0.03	-0.009	0.04	

Table 17: Results: KS2 English Points (std): varying the measure of closeness to the Fringe boundary

Note: \* denotes significance at 10 percent; \*\* denotes significance at 5 percent; \*\*\* denotes significance at 1 percent. The unit of observation is a primary school. The sample includes all primary schools that are present in the National Pupil Database in all of the academic years 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2010/2011 and where the dependent variable (maths scores in Key Stage 2 tests), pupil:teacher and pupil:assistant ratios are observed, within xkm of a pay area boundary. The coefficient reported represents the increase in English scores associated with the highpay side of the boundary. OLS, FILM, and Matching specifications additional account for observable characteristics of the school: percentage of pupils eligible for free school meals, with English as an additional language, that are non-white, and have a special educational need, the number of pupils in the school, dummy variables for region (North-East London, South-East London, Newt-Mext Gondon), rank of index of multiple deprivation and rank of income deprivation affecting children index. FILM and Matching additionally account for distance to the relevant boundary.

Table 18: Propensity score	Inner London boundary: 2km, 2					Outer London boundary: 2km, 2011				Fringe London boundary: 2km, 2011			
			ean	Т	-test		ean	Т	-test	Mean		T-test	
Variable	Sample	Treated	Control	t	$\mathrm{p}{>} \mathrm{t} $	Treated	Control	t	$\mathrm{p}{>} \mathrm{t} $	Treated	Control	t	p> t
Prop. FSM	Unmatched	0.28	0.20	7.57	0.00***	0.20	0.14	3.85	0.00***	0.09	0.10	-0.33	0.75
	Matched	0.28	0.24	3.75	0.00***	0.20	0.17	1.52	0.13	0.09	0.09	0.53	0.59
Prop. EAL	Unmatched	0.50	0.40	5.10	$0.00^{***}$	0.24	0.13	6.28	$0.00^{***}$	0.09	0.08	0.50	0.62
	Matched	0.50	0.50	0.28	0.78	0.24	0.22	1.06	0.29	0.09	0.07	1.11	0.27
Prop. non-white	Unmatched	0.76	0.63	6.45	$0.00^{***}$	0.45	0.28	7.42	$0.00^{***}$	0.18	0.17	0.52	0.61
	Matched	0.76	0.73	1.63	0.10	0.45	0.43	0.42	0.67	0.18	0.17	0.73	0.47
FTE Pupils (nursery to KS4)	Unmatched	364.58	365.93	-0.14	0.89	330.27	268.00	4.25	$0.00^{***}$	265.11	250.09	1.02	0.31
	Matched	365.30	373.00	-0.84	0.40	329.80	308.05	1.58	0.12	265.83	254.90	0.72	0.47
Prop. SEN	Unmatched	0.26	0.24	2.35	$0.02^{**}$	0.25	0.22	2.40	$0.02^{**}$	0.20	0.21	-0.61	0.55
	Matched	0.26	0.25	1.83	$0.07^{*}$	0.25	0.24	0.84	0.40	0.20	0.20	0.34	0.73
North-East	Unmatched	0.32	0.27	1.29	0.20	0.27	0.19	1.50	0.13	0.25	0.16	1.75	$0.08^{*}$
	Matched	0.32	0.31	0.47	0.64	0.27	0.20	1.46	0.15	0.25	0.23	0.33	0.74
South-East	Unmatched	0.20	0.26	-1.63	0.11	0.24	0.24	-0.04	0.97	0.13	0.27	-2.72	$0.01^{**}$
	Matched	0.21	0.18	0.92	0.36	0.24	0.45	-3.72	0.00***	0.13	0.14	-0.32	0.75
South-West	Unmatched	0.30	0.19	2.91	$0.00^{***}$	0.30	0.30	-0.11	0.91	0.38	0.26	2.16	$0.03^{**}$
	Matched	0.29	0.41	-3.40	0.00***	0.29	0.23	1.07	0.29	0.38	0.40	-0.28	0.78
IMD rank	Unmatched	0.27	0.45	-13.33	$0.00^{***}$	0.49	0.61	-5.19	$0.00^{***}$	0.73	0.70	1.31	0.19
	Matched	0.27	0.30	-2.67	$0.01^{**}$	0.49	0.47	1.19	0.23	0.73	0.75	-0.62	0.54
IMD rank (education)	Unmatched	0.51	0.58	-4.90	$0.00^{***}$	0.53	0.52	0.26	0.80	0.62	0.58	1.42	0.16
	Matched	0.51	0.48	2.27	$0.02^{**}$	0.53	0.37	6.38	0.00***	0.63	0.60	0.79	0.43
IMD rank (employment)	Unmatched	0.36	0.51	-10.93	$0.00^{***}$	0.55	0.64	-4.17	$0.00^{***}$	0.75	0.71	1.63	0.11
	Matched	0.36	0.38	-2.07	$0.04^{**}$	0.55	0.49	2.39	$0.02^{**}$	0.75	0.75	0.08	0.94
IMD rank (income)	Unmatched	0.24	0.39	-10.52	$0.00^{***}$	0.44	0.57	-5.05	$0.00^{***}$	0.68	0.67	0.81	0.42
	Matched	0.24	0.27	-2.03	$0.04^{**}$	0.45	0.43	0.72	0.48	0.68	0.70	-0.66	0.51
Prop. low IMD rank (education)	Unmatched	0.19	0.14	2.70	$0.01^{**}$	0.29	0.28	0.08	0.93	0.19	0.21	-0.67	0.50
	Matched	0.19	0.23	-2.25	$0.02^{**}$	0.28	0.51	-5.61	0.00***	0.19	0.18	0.29	0.78
Prop. low IMD rank (employment)	Unmatched	0.50	0.24	12.18	$0.00^{***}$	0.22	0.12	3.44	$0.00^{***}$	0.05	0.08	-1.68	0.09
	Matched	0.50	0.37	6.17	0.00***	0.22	0.27	-1.60	0.11	0.05	0.06	-0.59	0.56
Prop. low IMD rank (income)	Unmatched	0.71	0.44	11.51	$0.00^{***}$	0.37	0.19	4.90	$0.00^{***}$	0.07	0.11	-1.57	0.12
-	Matched	0.71	0.68	1.54	0.13	0.36	0.37	-0.31	0.76	0.07	0.08	-0.27	0.79
IDACI rank	Unmatched	6826.60	11447.00	-11.00	0.00***	12962.00	17324.00	-5.71	0.00***	21281.00	21008.00	0.37	0.71
	Matched	6818.80	7611.50	-2.47	0.01**	13016.00	13224.00	-0.30	0.76	21332.00	21826.00	-0.68	0.50
Distance to boundary	Unmatched	984.77	1017.40	-0.70	0.48	1147.40	1017.30	1.96	$0.05^{*}$	1038.40	1091.00	-0.84	0.40
v	Matched	987.42	955.82	0.74	0.46	1144.80	1110.20	0.53	0.60	1038.80	1101.30	-0.95	0.34

Table 18. Propensity score matching	test of balance of observable characterisics in main specification: within 2km of the bound	darv
Table 10. I topensity score matering	tost of balance of observable characteristes in main specification, within 2km of the bound	Jary

Note: \* denotes p < 0.10; \*\* denotes p < 0.05; \*\*\* denotes p < 0.01. The matching specification includes the following school level characteristics: proportion of pupils eligible for free school meals, proportion of pupils with English as an additional language, proportion of pupils that are non-white, number of pupils, proportion of pupils that have a special educational need, region, IMD and IDACI, and distance rank (as in our main specification).