The London effect, five years on: Technical appendix

In our analysis, we used a slightly different technique for calculating progress to that used in Burgess's paper. We also included more schools in our 2013 data. Below, we show key results from Burgess's original analysis, our recreation of this analysis using his original technique, and our recreation using our own technique.

Burgess's original technique calculated predicted progress using KS2 score in English, maths and science. Our technique used KS2 average points score and a quadratic term. Similarly for conditional progress, Burgess used KS2 scores in English, maths and science, along with gender, deprivation (as measured by eligibility for Pupil Premium) and birth month. We used KS2 average points score and a quadratic term, along with prior attainment, gender, level of deprivation (defined by both proportion of years in school when a student was eligible for free school meals, and IDACI) and birth month.

The headings below refer to the tables in Burgess's paper. All results are from 2013 data, rounded to three decimal places.

Table 1: London effect

Original results from Burgess's paper:

Location	Normalised GCSE points	Normalised progress	Conditional progress	N
London	0.049	0.086	0.101	60820
RoE	-0.007	-0.011	-0.013	459796
All	0	0		520616

Our recreation using Burgess's technique:

Location	Normalised GCSE points	Normalised progress	Conditional progress	N
London	0.070	0.094	0.130	69472
RoE	-0.010	-0.014	-0.019	466622
All	0	0	0	536094

Our recreation using our own technique:

Location	Normalised GCSE points	Normalised progress	Conditional progress	N
London	0.070	0.093	0.126	69472
RoE	-0.010	-0.014	-0.019	466622
All	0	0	0	536094

Table 4: London effect, with and without ethnic markers

Original results from Burgess's paper:

	Before controlling for ethnicity	After controlling for ethnicity
Progress	0.098	-0.014
Conditional progress	0.114	-0.006

Our recreation using Burgess's technique:

	Before controlling for ethnicity	After controlling for ethnicity
Progress	0.108	-0.015
Conditional progress	0.150	0.007

Our recreation using our own technique:

	Before controlling for ethnicity	After controlling for ethnicity
Progress	0.107	-0.016
Conditional progress	0.144	0.003