EAL and educational achievement in England: An analysis of the NPD

Presentation to National Pupil Database Users Group, DFE, Sanctuary Buildings 12 June 2015

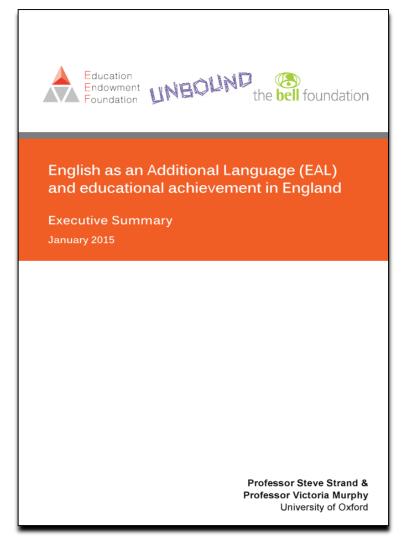
Professor Steve Strand

University of Oxford, Department of Education steve.strand@education.ox.ac.uk 01865 611071





Research reports









English as an Additional Language (EAL) and educational achievement in England: An analysis of the National Pupil Database

Professor Steve Strand

Dr Lars Malmberg
Dr James Hall

University of Oxford
Department of Education
January 2015

https://educationendowmentfoundation.org.uk/uploads/pdf/EAL_and_educational_achievement2.pdf

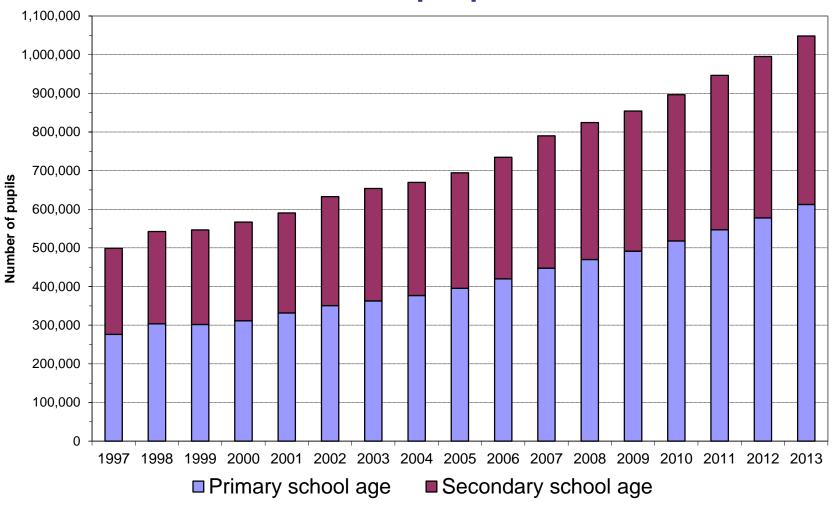


Overview of this presentation

- Brief overview of the main points from the summary report:
 - Demographics EAL (size & distribution)
 - Achievement profile by age 5-16
 - Focus on Key Stage 2
 - Risk factors for low attainment of EAL pupils
 - Implications for policy & practice



Number of EAL pupils 1997-2013

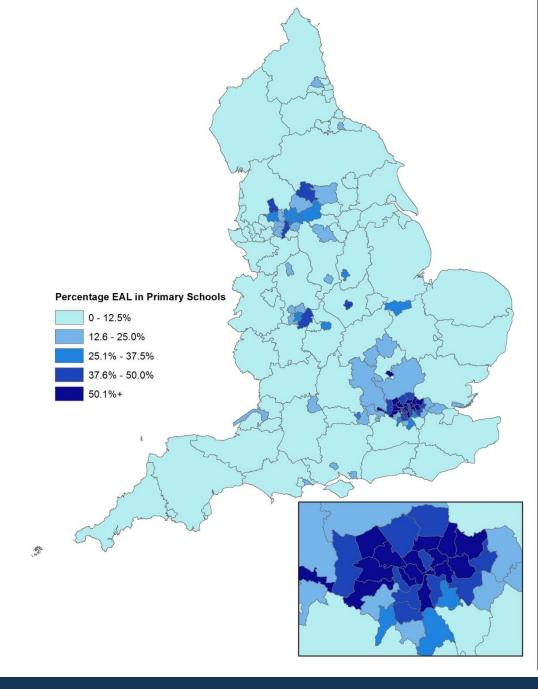


From 7.6% in 1997 to 16.2% in 2013



EAL demographics

- Wide regional variation (6% in SW and NE, 20% West Midlands up to 55% in inner London)
- Wide LA variation (17 of top 20 in London but also Slough, Luton & Leicester, plus high in Birmingham, Manchester)
- But also localised to schools: of the 1,681 schools (8.4%) with >50% EAL, 762 outside London including NW, Yorks & Humber ...

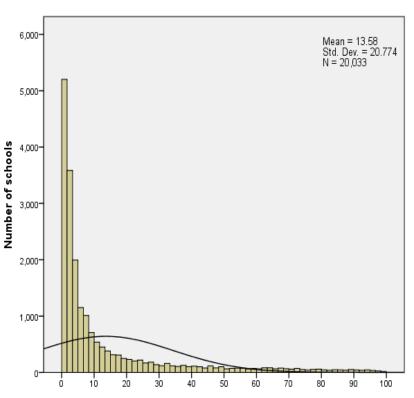




School Distribution %EAL

Very skewed: around one-quarter (22%) of schools
 <1% EAL & over half (54%) <5% EAL

% EAL in	N	%
school	Schools	Schools
0.0 - 1	4435	22.1
1.1 - 5	6346	31.7
5.1 - 10	2870	14.3
10.1 - 20	2240	11.2
20.1 - 30	1142	5.7
30.1 - 40	730	3.6
40.1 - 50	589	2.9
50.1+	1681	8.4
Total	20033	100



Widely dispersed: of the 1,681 schools with >50% EAL,
 762 outside London including NW, Yorks & Humber



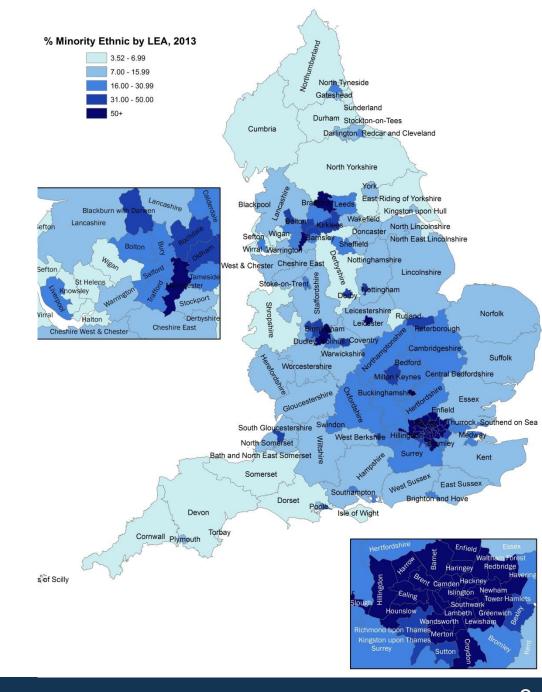
% of students aged 5-16: 2003 & 2013

Ethnic group	2003	2013	Change
White British	83.2%	73.4%	-9.9%
White other groups	2.6%	5.0%	2.3%
Irish	0.4%	0.3%	-0.1%
Traveller of Irish heritage	0.1%	0.1%	0.0%
Gypsy/Roma	0.1%	0.3%	0.2%
Any other White background	2.1%	4.3%	2.3%
Mixed	2.6%	4.6%	2.0%
White & Black Caribbean	0.9%	1.4%	0.5%
White & Black African	0.2%	0.6%	0.3%
White & Asian	0.5%	1.0%	0.5%
Any other Mixed background	0.9%	1.6%	0.7%
Asian	6.8%	10.2%	3.4%
Indian	2.4%	2.6%	0.3%
Pakistani	2.7%	3.9%	1.3%
Bangladeshi	1.1%	1.6%	0.5%
Chinese	0.4%	0.4%	0.0%
Any other Asian background	0.6%	1.6%	1.0%
Black	3.6%	5.3%	1.7%
Black Caribbean	1.5%	1.4%	-0.1%
Black African	1.7%	3.3%	1.7%
Any other Black background	0.4%	0.6%	0.2%
Any other ethnic group	0.8%	1.5%	0.7%



Ethnic minorities

- 26.6% of students age 5-16 from ethnic minority groups, up from 16.8% in 2003
- Dominated by London (70%) and Inner London (82%), with 22 of the 25 LA's with the highest %BME, but also Birmingham, Manchester, Slough, Luton, Leicester, Bristol ...
- Similar skew in school distributions



EAL gap by age - England 2013

				FLE	EAL	Odds
Age	Stage	Domain	Measure	%	%	Ratio
5	EYFSP	Reading	At least expected level	73	63	0.63
		Maths	At least expected level	71	62	0.67
		Overall	Good level of Development (GLD)	54	44	0.67
7	KS1	Reading	Level 2A+	57	48	0.70
		Maths	Level 2A+	53	46	0.76
		Overall	Average Re + Ma (2A+)	55	47	0.73
11	KS2	Reading	Level 4B+	77	69	0.65
		Maths	Level 4B+	74	72	0.90
		GPS	Level 4B+	65.1	66.2	1.05
		Overall	Level 4B+ in RWM	64	59	0.81
16	KS4	English	GCSE A*-C pass	68.8	64.6	0.83
		Maths	GCSE A*-C pass	71.2	71.8	1.03
		Language	GCSE A*-C (any language)	31.7	47.4	1.94
		MFL ^(a)	GCSE A*-C (French/German/Spanish)	67.4	74.9	1.44
		Overall	5+A*-C Inc. En & Ma / Best 8	60.9	58.3	0.90
		Overall	EBacc achieved	22.5	24.4	1.11



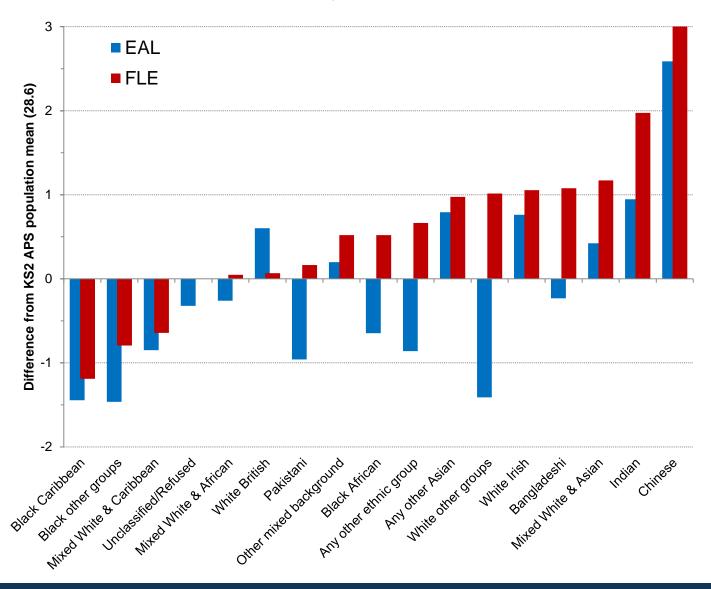
EAL & Ethnicity

- EAL closely correlated with ethnicity (except for Black Caribbean and MWBC) but on its own explains only 0.2% variance in KS2 score (ethnicity explains 1.8%)
- But EAL can add a little (combined 2.2%) as within each ethnic group those with EAL consistently lower achieving (see next slide)

Ethnic group	EAL %	Total N
Bangladeshi	96.1%	9,410
Pakistani	88.4%	22,737
Any other ethnic group	86.0%	7,789
Any other Asian	81.5%	7,851
Indian	79.1%	13,437
Chinese	78.6%	1,758
White other groups	73.6%	22,579
Black African	70.9%	16,803
Traveller Gypsy/Roma	42.2%	1,451
Black other groups	36.6%	3,345
Other mixed background	23.5%	8,400
Mixed White & African	22.8%	2,703
Unclassified/Refused	17.9%	2,879
Mixed White & Asian	16.5%	5,080
Black Caribbean	4.2%	7,260
Mixed White & Caribbean	2.2%	7,130
Traveller Irish	1.6%	368
White Irish	1.6%	1,725
White British	.4%	379,842
Total	17.3%	522,547



EAL and ethnicity – KS2 score 2013



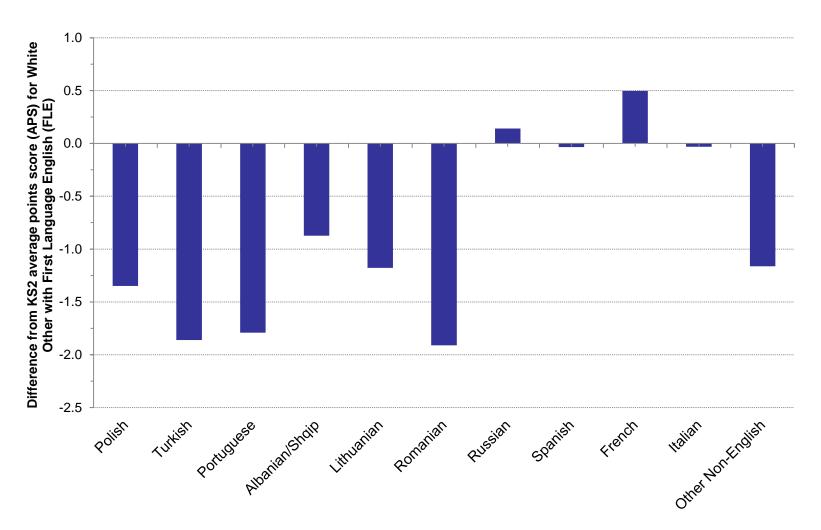


EAL and ethnicity

- White Other & Black African key because:
 - Average EAL gap at KS2 is 2.5 NC mths, but for Black African 5 NC mths & White Other 10 NC mths, also large EAL gap for these groups at KS4;
 - The two ethnic groups with the largest increase 2003 to 2013, both doubling in size
 - Over 70% are EAL and over 40% recent arrivals in UK (age 5-14) compared to 3% of all pupils (LSYPE)
- Looked at the top 10 languages (other than English) within these ethnic groups and compared achievement against the average for FLE from the same ethnic group



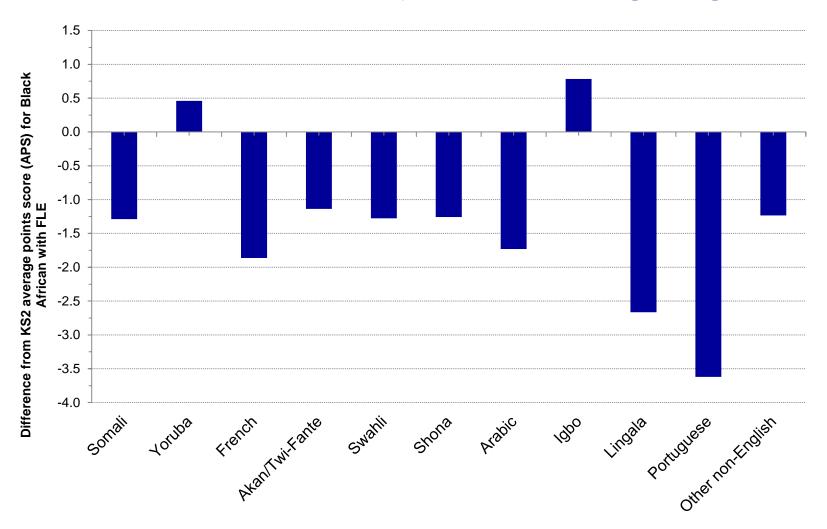
White Other groups by First Language



Note: Compared to White Other with FLE, adjusted for FSM, IDACI, migration & region (Full report p69-71).



Black African by First Language



Note: Compared to Black African with FLE, adjusted for FSM, IDACI, migration & region (Full report p69-71).



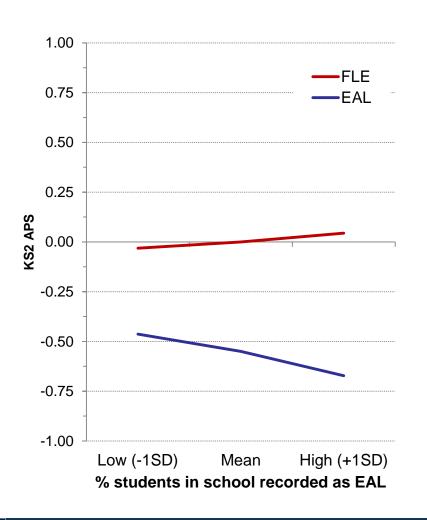
Other pupil risk factors

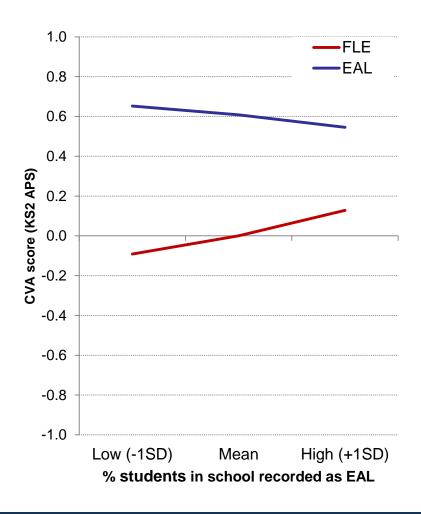
- Most risk factors broadly the same for EAL and FLE - SEN, FSM, IDACI, age, gender
- But four have a particular risk for EAL:
 - Ethnic group/First Language: as described earlier
 - International Arrival during the Key Stage (proxied by absence of prior attainment score): 15% of EAL vs.
 2% FLE, no association with achievement for FLE but
 12 NCmths for EAL
 - Pupil mobility: e.g. Y6 EAL entrant -12 NCmths, FLE
 Y6 entrant -4 NCmths
 - Region: EAL in regions on average 4 NCmths lower than London, but Yorkshire & Humberside 8 NCmths



School factors

• Does a high %EAL impact negatively on achievement/progress of FLE pupils? (Green, 2010; Cho, 2012)? Answer = No.







School variation in EAL progress

KS2	Level 1	School	16th centile	84th centile
Variable	(student) fixed	Variation	school	school
	coefficient	(SD)	(-1SD)	(+1SD)
Gender	-0.60	0.29	-0.89	-0.31
EAL	0.61	0.63	-0.02	1.24
FSM	-0.34	0.48	-0.82	0.14
KS4	Level 1	School	16th centile	84th centile
KS4 Variable	Level 1 (student) fixed	School Variation	16th centile school	84th centile school
	(student) fixed	Variation	school	school
Variable	(student) fixed coefficient	Variation (SD)	school (-1SD)	school (+1SD)

Note

Note: ML model pupils (Level 1) within schools (Level 2). All three coefficients (Gender, EAL, FSM) allowed to vary at the school level simultaneously. Controls for all pupil background and school variables listed in Model 5 (prior attainment, age, ethnicity, gender, pupil mobility, SEN, FSM and IDACI) (see full report p56 for KS2).



Implications

- EAL in the NPD is a limited measure
 - "where a child was exposed to the language during early development and continues to be exposed to this language in the home or in the community. If a child was exposed to more than one language (which may include English) during early development the language other than English should be recorded, irrespective of the child's proficiency in English." DCSF (2006).
- This measure has limited use, lack of fluency in English language is the real risk, this is what is proxied by international arrival, school mobility and first languages
 - e.g. Strand & Demie (2005) report a direct measure of stage of English fluency (Hilary Hester Scales) showed that EAL pupils who were fully fluent in English (over 40% of EAL pupils) actually had higher achievement than monolingual English.



Stage of fluency in English

English fluency and attainment in primary school

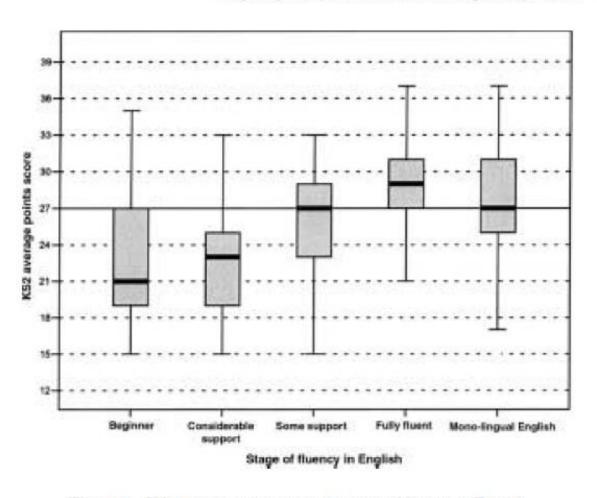


Figure 2. KS2 average points score, by stage of fluency in English



Implications (Cont.)

- Schools need robust measures to identify fluency & need
- EAL Support excellent resources were produced by National Strategies e.g. Supporting pupils learning EAL (2002); New Arrivals Excellence Programme (2007); PNS Learning & teaching bilingual children in the primary years (2007)
- Funding arrangements (first three years at school or international arrival) broadly well targeted (though literature suggests may take 5-7 years to acquire full fluency / academic writing)
- Educational progress of EAL is high, but cannot be complacent as it reflects historically high levels of investment (S11, EMAG until 2012)



References

- Cho, R. M. (2012). Are there peer effects associated with having English Language Learner (ELL) classmates? Evidence from the Early Childhood Longitudinal Study Kindergarten Cohort (ECLS-K). *Economics of Education Review, 31(5), 629-643.*
- DCSF (2006). Pupil Language Data: Guidance for local authorities on schools' collection and recording of data on pupils languages. London: DCSF.
- Demie, F. & Strand, S. (2006). English language acquisition and educational attainment at the end of secondary school. *Educational Studies*, 32, (2), 215-231. http://dx.doi.org/10.1080/03055690701423184
- DFES. (2007). Learning and teaching for bilingual children in the primary years: Teaching units to support guided sessions for writing in EAL (Ref 00068-2007). London: Department for Education and Skills.
- Geay, C., McNally, S., & Telhaj, S. (2012). *Non-native speakers of English in the classroom: What are the effects on pupil performance?* Centre for the Economics of Education (CEE). London School of Economics, London. http://www.nuffieldfoundation.org/sites/default/files/files/ceedp137.pdf
- Strand, S. (2010). Do some schools narrow the gap? Differential school effectiveness by ethnicity, gender, poverty and prior attainment. *School Effectiveness and School Improvement*, 21(3), 289-314. http://dx.doi.org/10.1080/09243451003732651
- Strand, S., & Demie, F. (2005). English language acquisition and educational attainment at the end of primary school. *Educational Studies*, 31, (3), 275-291. http://dx.doi.org/10.1080/03055690500236613
- Strand, S., Malmberg, L., & Hall, J. (2015). *English as an additional language and educational achievement in England: An analysis of the National Pupil Database*. London: Educational Endowment Fund. http://educationendowmentfoundation.org.uk/uploads/pdf/EAL and educational achievement2.pdf



End of Presentation



Recording issues

