

Educational inequalities

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The IFS Deaton Review

BTEC funding loss 'will deepen inequality', warns Rochdale MP

Workplace gains elusive for highly educated UK minorities

A new study finds that despite high levels of education, UK-born children of immigrant parents face lower levels of employment compared to their white counterparts.

Do GCSE results reveal growing inequality in education? Skip college? Not if you want to make more money

Government education funding puts levelling-up into reverse, IFS claims

Maths A-Level can add up to £10k to an annual salary

Least selective universities 'performing best on social mobility'

Black Caribbean girls in England 'twice as likely to be excluded from schools as white girls'

Covid could cost children £350bn in earnings due to lost learning, says IFS

Although Russell Group university tops new IFS/Sutton Trust ranking based on 'mobility rate', other selective institutions languish towards bottom of list

Children's language skills deteriorated during Covid lockdown so much that now they struggle to communicate

What do we mean by educational inequalities?





Inequalities 'by' and 'in' education - and beyond



"Educational inequalities" can mean many different things

- Inequalities by educational attainment how do life outcomes differ by level of education?
- Inequalities in educational attainment how is educational attainment distributed?

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Inequalities in education

Black Caribbean girls in England 'twice as likely to be excluded from schools as white girls'

Children's language skills deteriorated during Covid lockdown so much that now they struggle to communicate This presentation

A huge topic... in about 20 minutes



Inequalities by education

1. Why should we worry about education inequalities?

Inequalities in education

- 2. When do educational inequalities develop?
- 3. Who fares poorly, and well, in the education system?
- 4. How equal is the education system?

Inequalities by education: Why should we worry about education inequalities?

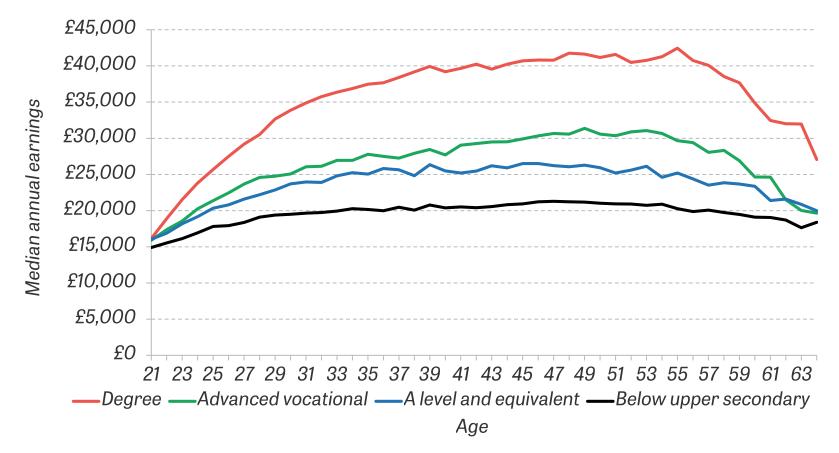




Degree holders enjoy much higher earnings

Median annualised earnings among employees, by age and qualification level



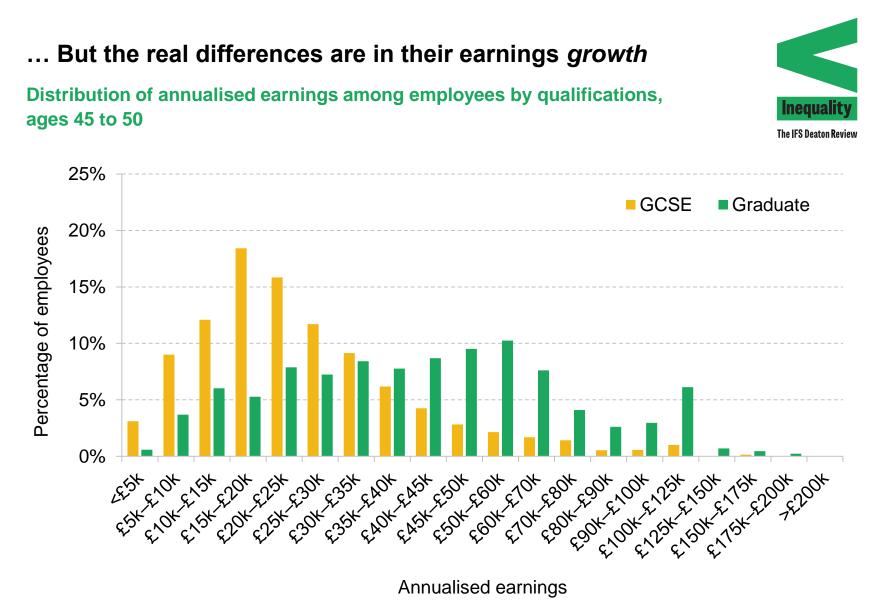


Source: Figures 14 and 15, Farquharson et al. (2022).

Graduates already earn more at the start of their career... Distribution of annualised earnings among employees by gualifications, Inequality ages 25 to 30 The IFS Deaton Review 25% **GCSE** Graduate 20% Percentage of employees 15% 10% 5% 0% £54 £104 £154 £204 £254 £304 £354 £404 £454 £504 £604 £104 £804 £904 004 254 504 154 754 004 004

Annualised earnings

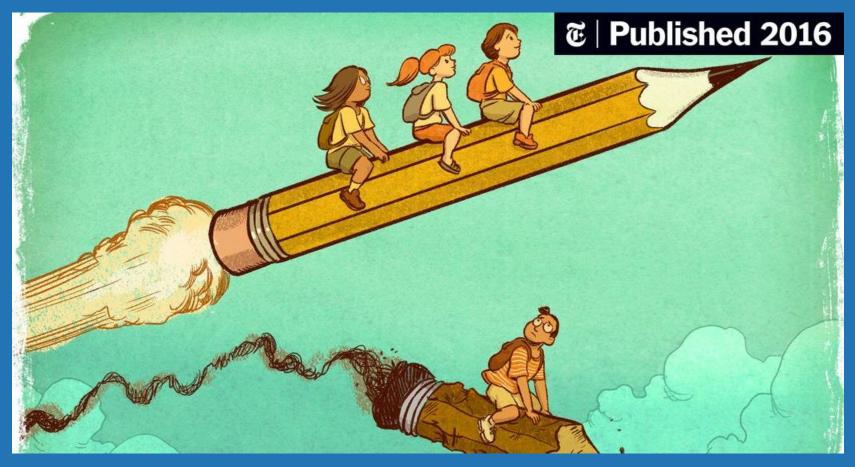
Source: Figure 12, Farquharson et al. (2022).



Source: Figure 13, Farquharson et al. (2022).

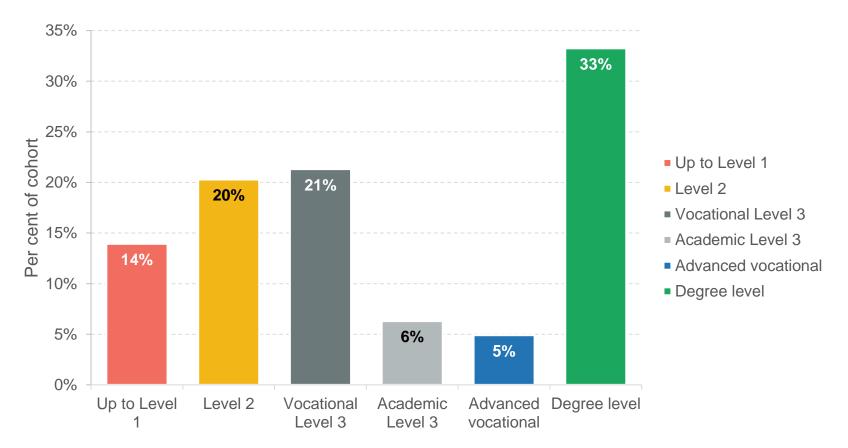
Inequalities in education: When do educational inequalities develop?





There are significant differences in how much education young people get





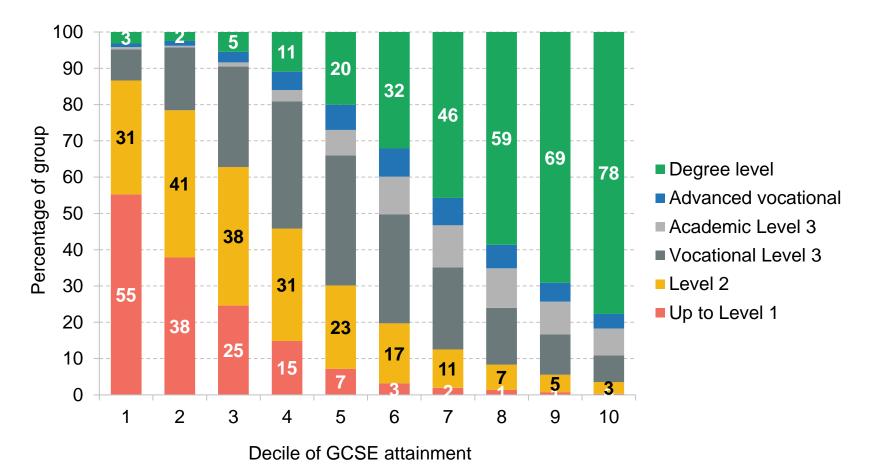
Source: Authors' calculations using Table A1.9 in Espinoza et al. (2020).



But those differences trace back to age 16...

Educational attainment at age 26, by GCSE attainment (2016)

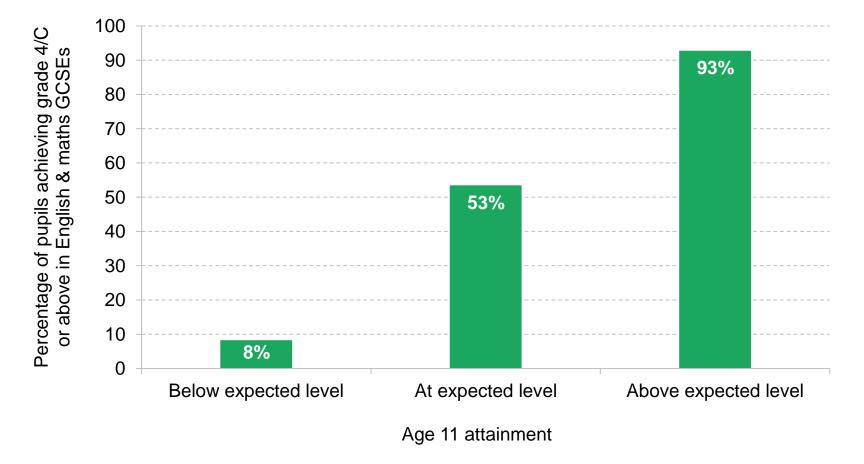




Source: Figure 59, Farquharson et al. (2022).

... which traces back to age 11...

GCSE performance, by attainment at the end of primary school (2019)



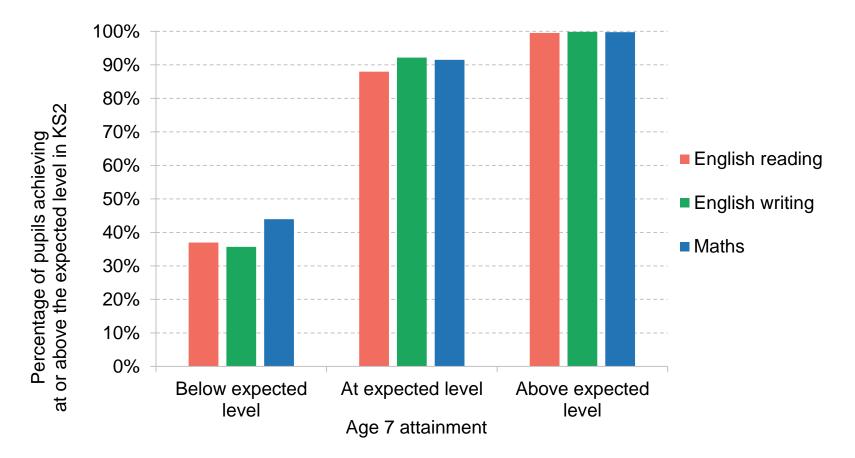
Source: Figure 50, Farquharson et al. (2022).



... which traces back to age 7...

Attainment at the end of primary school, by level of attainment at age 7 (2019)





Source: Figure 49, Farquharson et al. (2022).

... which traces back to the pre-school years

Associations between early development (age 3) and later outcomes



5 GCSEs A*-C	Emotional & behavioural difficulties (age 17)		
Unconditional correlations			
0.126***	-0.104***		
-0.083***	0.399***		
	ations 0.126***		

Controlling for child/family characteristics, environment & skills in adolescence

Cognition (age 3)	0.067***	-0.034***
Socio-emot (age 3)	-0.019*	0.081***

Source: Table 2, Cattan et al. (2022).

Inequalities in education: Who fares poorly, and well, in the education system?

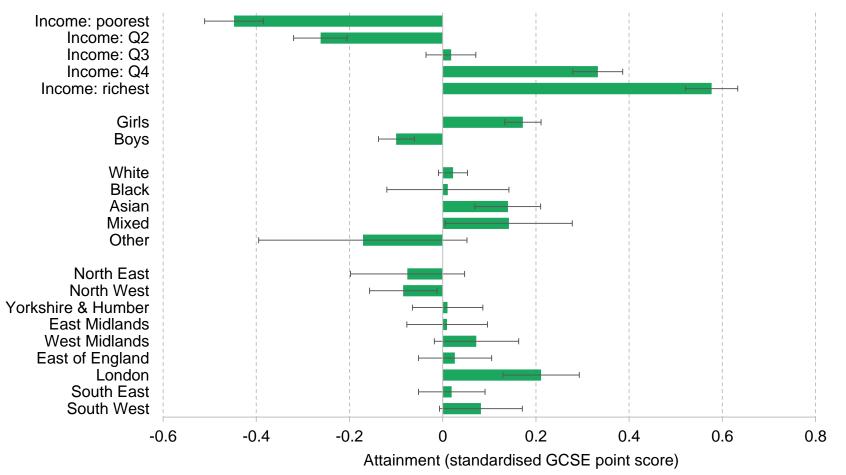




(How) are existing inequalities reflected in education?

Educational attainment at GCSEs, MCS cohort





Source: Figure 24, Farquharson et al. (2022).

What inequalities does the existing education system produce?

(How) are existing inequalities reflected in educational outcomes?

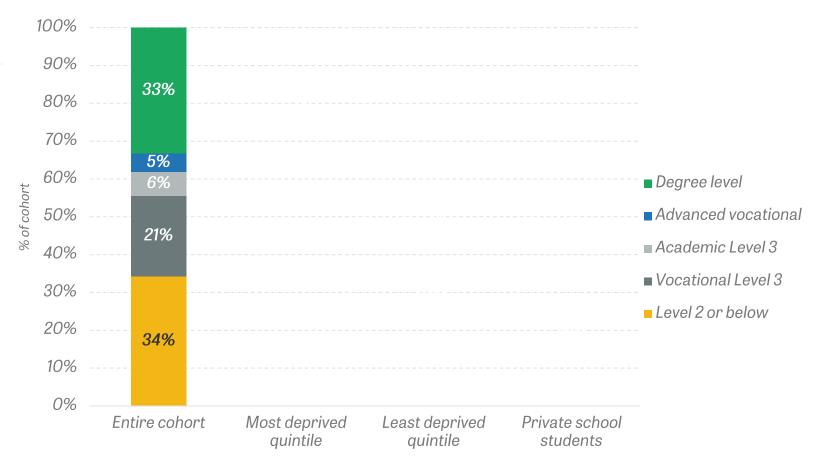


Enormous socio-economic gaps in educational attainment

There are sharp inequalities by socioeconomic status

Highest qualification at age 26 (2016)





Source: Figure 33, Farquharson et al. (2022).

There are sharp inequalities by socioeconomic status

100% 17% 90% 33% 80% 49% 70% 71% 60% Degree level % of cohort Advanced vocational 50% Academic Level 3 40% ■ Vocational Level 3 Level 2 or below 30% 53% 20% 34% 10% 19% 8% 0% Private school Entire cohort Most deprived Least deprived auintile auintile students

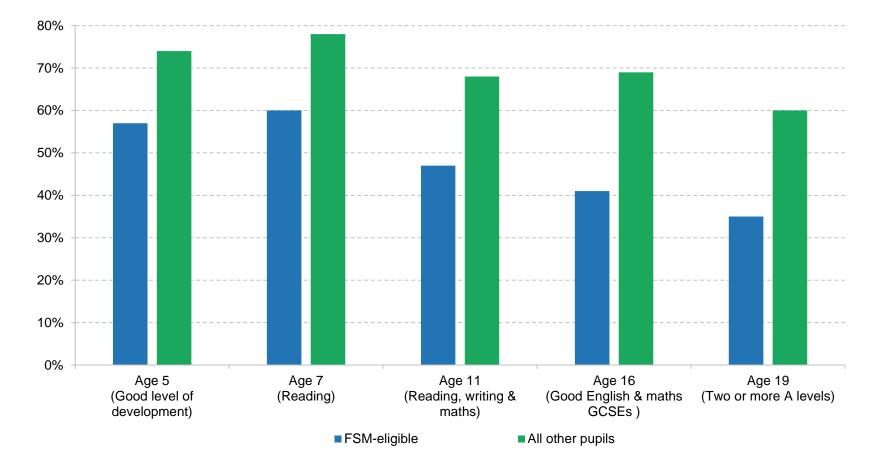
The distribution of educational attainment among 26-year-olds in England by socioeconomic status, 2016

Source: Figure 33, Farquharson et al. (2022).



And these inequalities have their roots earlier in life

Attainment gaps between students eligible and not eligible for free school meals, 2019

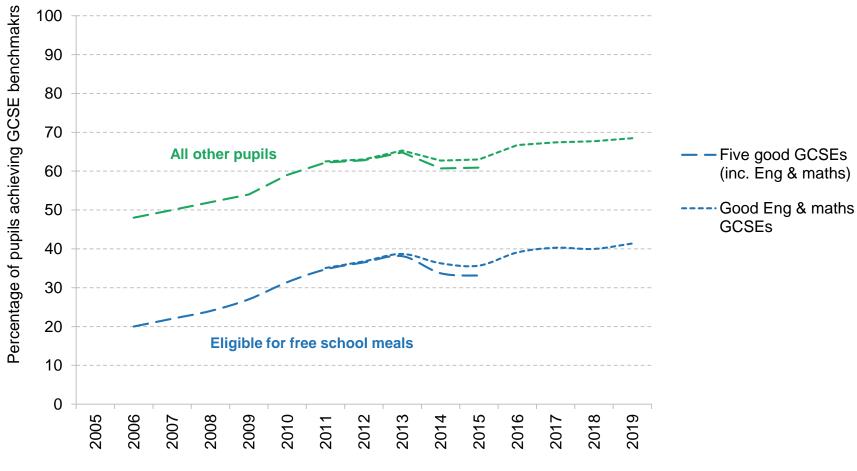


Source: Figure 27, Farquharson et al. (2022).



ween students eligible and not eligible for free school

Disadvantage gaps are very stubborn



GCSE performance by eligibility for free school meals

Source: Figure 28, Farquharson et al. (2022).

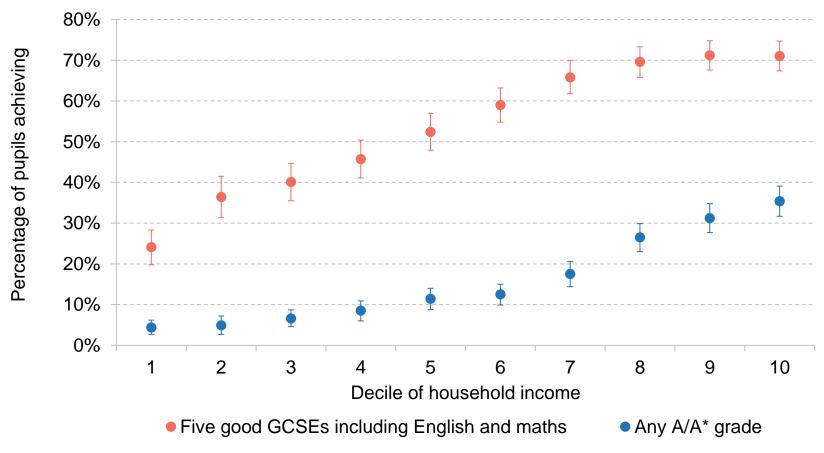
Deaton Review - Education Inequalities



And the gaps are not just about the poorest vs. the rest

Inequality The IFS Deaton Review

GCSE attainment by decile of equivalised household income at age 14 (MCS cohort)



Source: Figure 29, Farquharson et al. (2022).

What inequalities does the existing education system produce?

(How) are existing inequalities reflected in educational outcomes?



Enormous socio-economic gaps in educational attainment

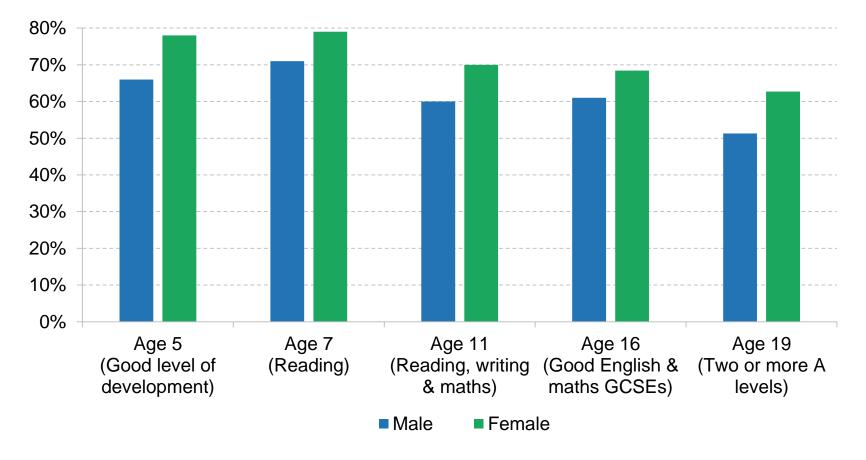
• Young people from disadvantaged families are far less likely to be successful in their GCSEs and to study for higher-level qualifications

Girls outperform boys at school – but miss out on the highest returns

Girls do better in education – but worse in the labour market







Source: Figure 34, Farquharson et al. (2022).

What inequalities does the existing education system produce?

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Enormous socio-economic gaps in educational attainment

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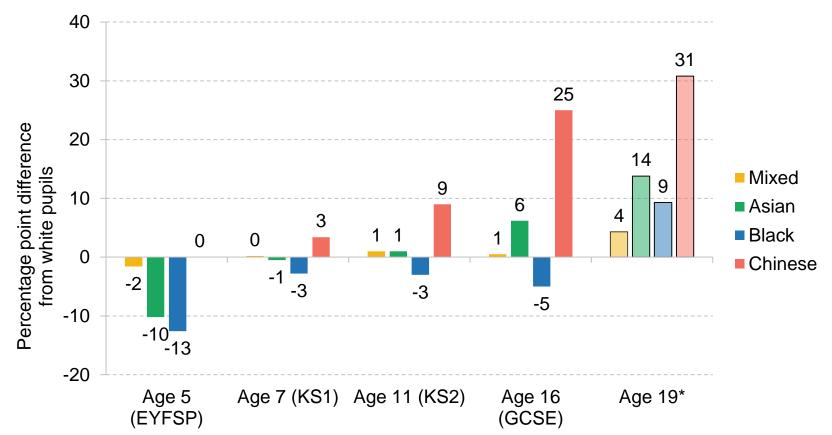
Girls outperform boys at school – but miss out on the highest returns

 Since the 1980s, girls have done better at school and more women now have degrees – but large earnings penalties still persist

Young people from non-white backgrounds start out behind, but make faster progress through the schooling system and beyond

Children from ethnic minorities start out behind, but make fast progress

Attainment gaps between ethnic minority pupils and white pupils, 2019 GCSE cohort*



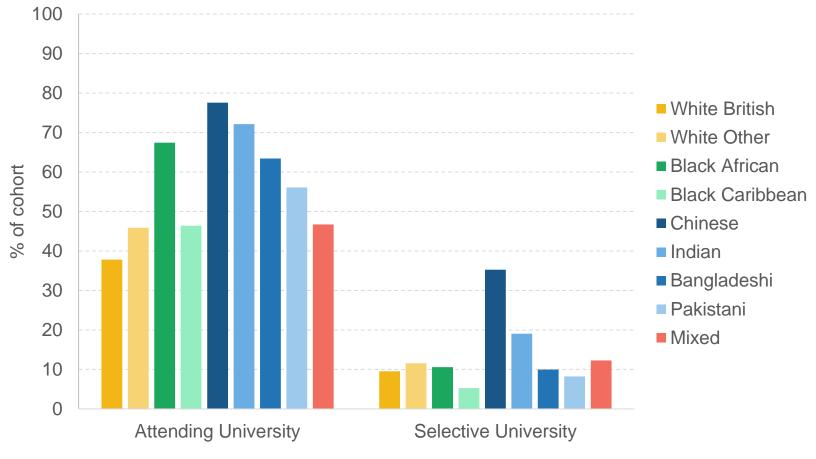
Source: Figure 37, Farquharson et al. (2022). Note that age 19 results are from a different cohort (the 2016 GCSE cohort).



Every ethnic minority group is more likely to progress to university than White British pupils



Progression to higher education at age 19 by ethnicity, 2018-19



Source: Adapted from Figure 39, Farquharson et al. (2022).

What inequalities does the existing education system produce?

(How) are existing inequalities reflected in educational outcomes?



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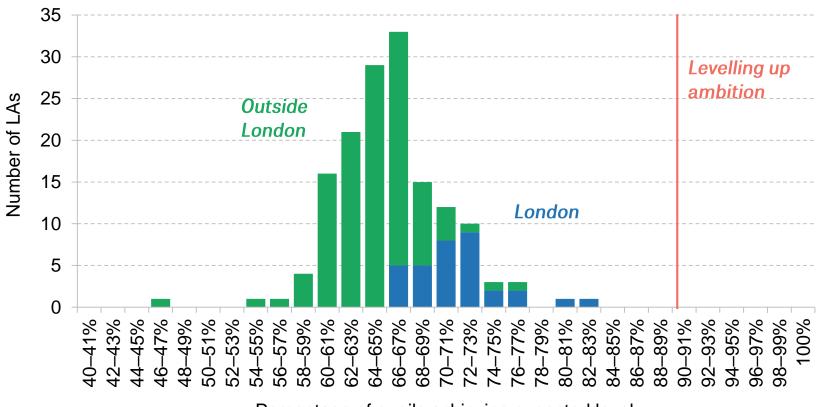
 Since the 1980s, girls have done better at school and more women now have degrees – but large earnings penalties still persist

Young people from non-white backgrounds start out behind, but make faster progress through the schooling system and beyond

Attainment in London is higher than elsewhere – though most of this is explained by income

And pupils in London fare better than elsewhere

Distribution of local authorities based on the share of primary school leavers meeting the expected level in reading, writing and maths, 2019



Percentage of pupils achieving expected level

Source: Figure 41, Farquharson et al. (2022).



What inequalities does the existing education system produce?

(How) are existing inequalities reflected in educational outcomes?



Enormous socio-economic gaps in educational attainment

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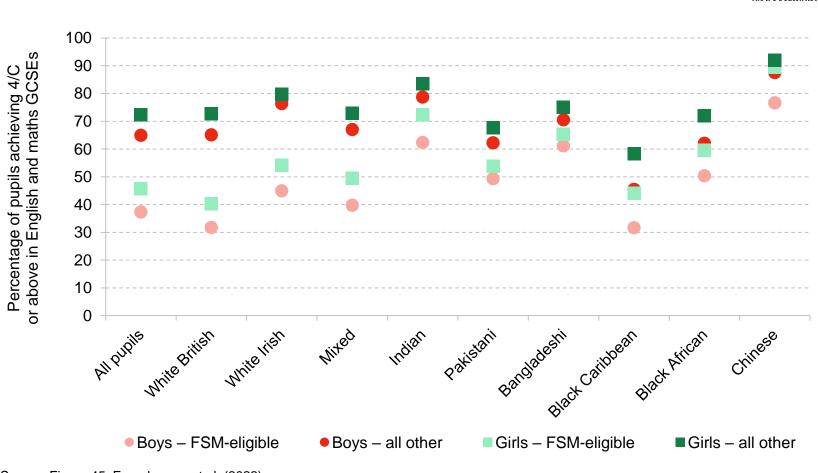
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 Since the 1980s, girls have done better at school and more women now have degrees – but large earnings penalties still persist

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Attainment in London is higher than elsewhere – though most of this is explained by income

And these inequalities also intersect



Intersections between inequalities matter a lot

(2019)

GCSE performance by eligibility for free school meals, gender and ethnicity

Source: Figure 45, Farquharson et al. (2022).



Income is a big predictor of attainment – but not the only one

Contribution of different demographic factors to inequalities in educational attainment (MCS cohort)

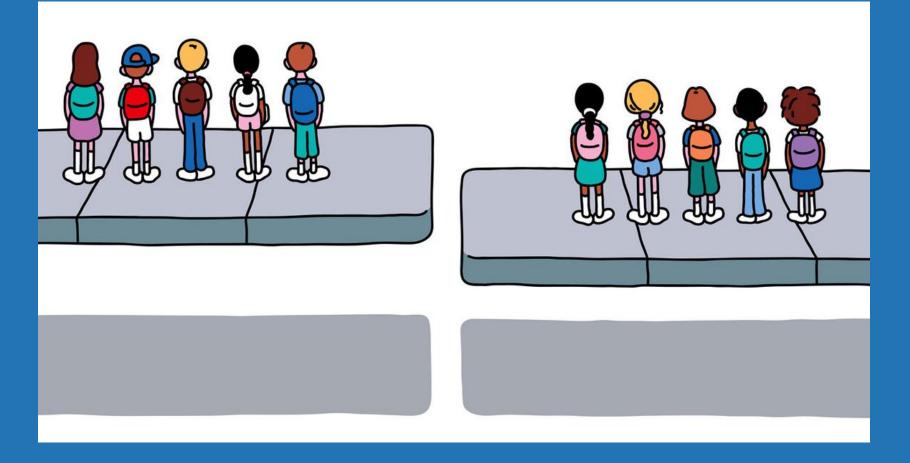
Share of variation explained 0% 5% 10% 15% 20% 25% Basic predictors Total points Extended predictors + Income good GCSEs Basic predictors Extended predictors + Income S Gender Ethnicity Socio-economic status Geography

Source: Figure 48, Farquharson et al. (2022).



Inequalities in education: <u>How equal</u> is the education system?

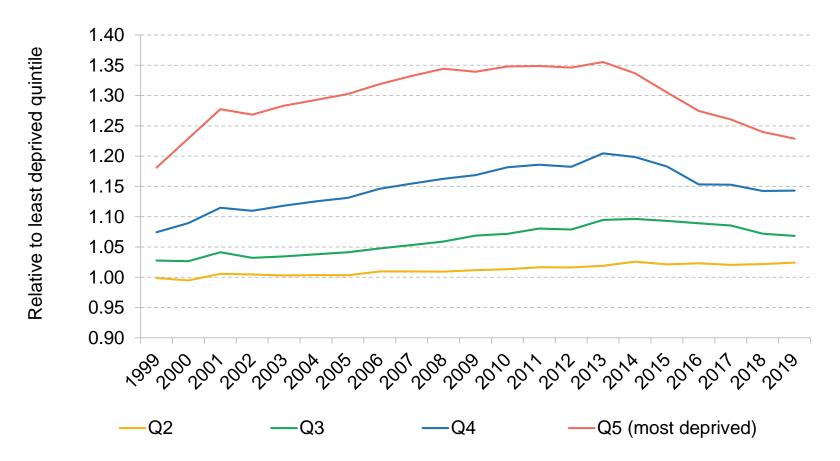




School funding has become less progressive

Spending per primary school pupil by quintile of eligibility for free school meals, relative to least deprived quintile



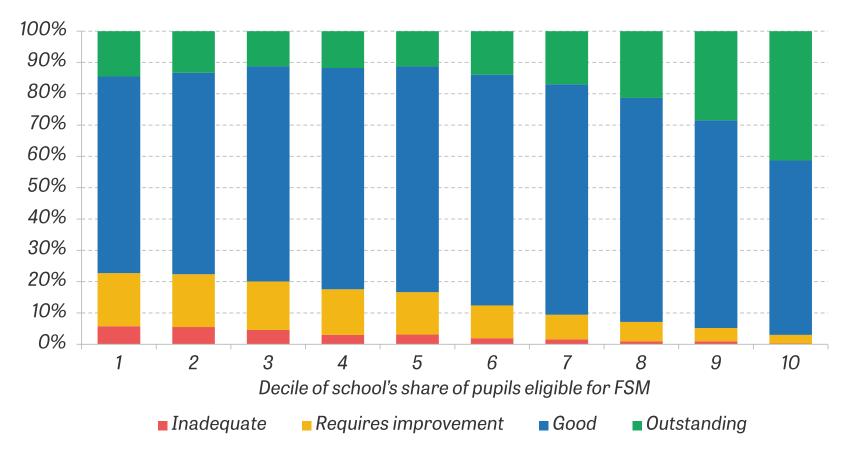


Source: Panel A, Figure 51, Farquharson et al. (2022).

And poorer schools tend to have worse teaching

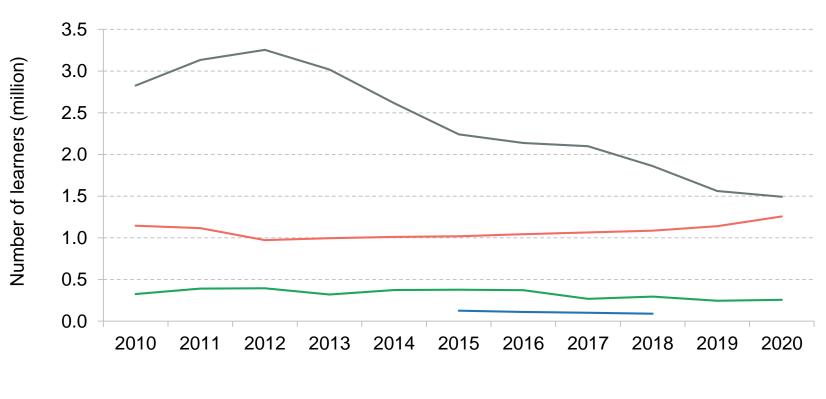
Ofsted ratings for quality of teaching, learning and assessment in statefunded schools in England (latest to August 2019)





Source: Figure 53, Farquharson et al. (2022).

There are few 'second chances' for those who don't do well, both in the adult education system...



—Low-level learners — Apprentices — Sub-degree students — Degree students

Source: Figure 55, Farquharson et al. (2022).

Total number of adult learners in England

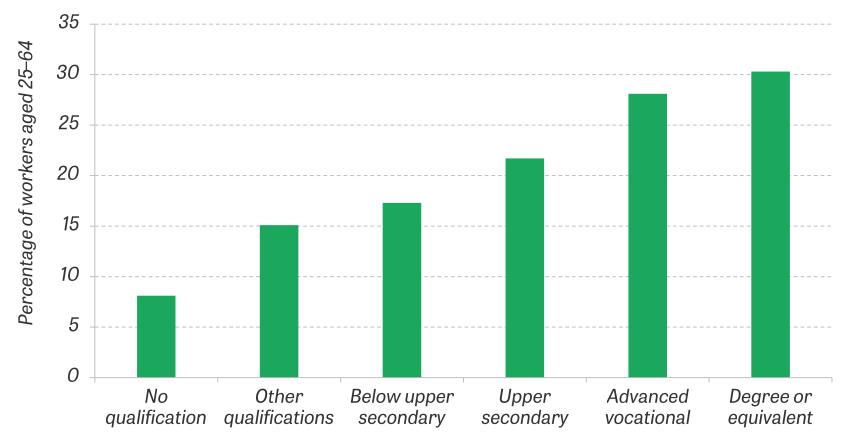
Inequality

The IFS Deaton Review

... and at work



Share of workers receiving employer-provided training in the last three months, by highest qualification level (2017)

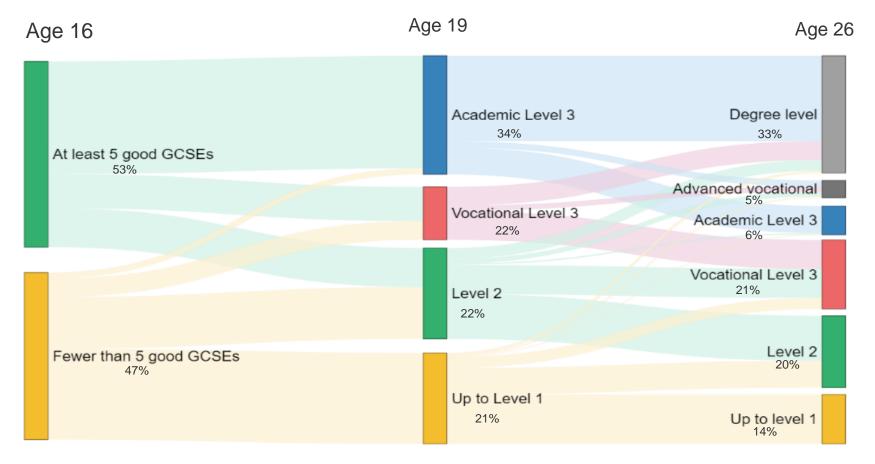


Source: Figure 58, Farquharson et al. (2022).

Meaning that some young people get stuck

The evolution of educational attainment for the 2006 GCSE cohort





Source: Figure 54, Farquharson et al. (2022).

What can we do about it?







Making progress on tackling educational inequalities means defining the problem(s) we're trying to solve

- Inequalities in education or by education?
- Educational inequalities themselves, or wider social issues?
- Reducing inequality *per se*, or boosting skills at the bottom?



Think about the education system as a whole

- Early interventions can be a powerful tool but must be followed up
- Resources matter both their level and their allocation

And look outside the education system too

- Families differ in their knowledge and resources
- Today's income inequalities can become tomorrow's education inequalities
- Health, social services, economic insecurity, housing policy, tax and benefits system all play a role



Young people in the UK today are more qualified than ever

We've made progress in boosting some disadvantaged groups, e.g. women and ethnic minorities

 Though educational success for these groups is too often not rewarded as highly in the labour market

We all have an interest in raising skills and developing second chances

- Economic case productivity, resilience to labour market changes
- Moral case wildly different outcomes based on small differences at key moments