What % of pupils achieve grade 5 or above in English & maths GCSEs?

Less than 4 in 10 pupils in 2030 will achieve grade 5 or above in English & maths GCSEs (45.3% in 2022/23)

Generation at risk gland 'facing rades' after

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A new educational dawn should focus on pupils' wellbeing Lee Elliot Major



A generation at risk Rebalancing education in the postpandemic era

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Could learning loss suffered by school pupils in England & UK end up being the most enduring and inequitable legacy of the Covid pandemic?

International review of learning loss & pandemic strategies

Dynamic model of skill formation with socio-emotional &cognitive skills linked to GCSE outcomes & social mobility

Low cost equalising policies

Postpandemic gaps in England

Study/measure	Socio-economic measure	Size of gap
GCSE attainment at age 15/16, 2022/23 (DfE)	Free school meals entitlement versus non-FSM	3.94 (widest gap in a decade)
Age 5 expected levels in the early learning goals, 2022/23 (DfE)	Free school meals entitlement versus non- FSM	20.2% (49.7% versus 69.9%)
OECD maths score at age 15 (2022)	Index of economic, social and cultural status	86 points between top and bottom 25% of status (similar to gap in 2015/18)
NFER reading tests for Year 3 and Year 4 pupils (2023)	Free school meals entitlement versus non-FSM	7 months' progress
EPI reading tests in primary school (2023)	Primary schools with high and low levels of disadvantage	12.3 months of learning (11.7 months before lockdown)

Category	England	Other Countries
Tutoring	£1 billion National Tutoring Programme	Australia: \$337 million programme. Germany: €1 billion for tutoring. Spain, Chile, USA: significant tutoring initiatives.
Boosting Teaching Capacity	No strategy to increase teaching capacity or hire more teachers.	Scotland, Wales: Focus on hiring new teachers. France, Italy, New Zealand, Netherlands: similar strategies.
Extracurricular Activities	Limited, with a 2021 summer school and Holiday Activities and Food Programme.	France, Germany, Scotland, Wales, Netherlands, Ireland, Japan: Extensive extracurricular programs.
Improving Wellbeing	Some mental health/wellbeing guidance	Canada, France, Scotland, Netherlands, Wales: Various mental health initiatives.
Addressing Absenteeism	Attendance hubs, mentor programs, automated texts to parents.	Scotland, Chile, USA, New Zealand: Home visits, awareness and tracking teams, attendance officers.
Equity Policies	£1.3 billion 'recovery premium' for disadvantaged pupils.	Spain, France, USA, Scotland, Japan, Canada, Germany, New Zealand: Various equity initiatives.
Conclusions	Focused on academic catch-up, less on socio- emotional skills and extracurricular support.	Other countries had a more holistic approach including socio-emotional skills and extracurricular activities.

Post-pandemic recovery approaches

Model of skill formation — latent class analysis & production functions to predict outcomes

- Cohort studies provide data from birth to adulthood.
- Our approach is to condense data into low dimensional vectors of 'skills' that interact in a dynamic fashion to produce later life outcomes. We argue that a low dimensional vector – comprising investment, cognition, and socioemotional skills – can account for the covariance between most of the data we observe.
- $m_{i,t}^k = \mu_{i,t}^k + \alpha_{i,t}^k \theta_t^k + \varepsilon_{i,t}^k$
- We relate these vectors to future achievement
- $Y_T = \mu_T + \delta_N \theta_T^N + \delta_C \theta_T^C + \varepsilon$
- And we ask how skills at certain ages feed into skill production later on.

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$$\begin{pmatrix} \theta_{t+1}^{N} \\ \theta_{t+1}^{C} \end{pmatrix} = \begin{pmatrix} \gamma_{1}^{N} & \gamma_{2}^{N} \\ \gamma_{1}^{C} & \gamma_{2}^{C} \end{pmatrix} \begin{pmatrix} \theta_{t}^{N} \\ \theta_{t}^{C} \end{pmatrix} + \begin{pmatrix} \gamma_{3}^{N} \\ \gamma_{3}^{C} \end{pmatrix} \theta_{t}^{I} + \begin{pmatrix} \alpha^{N} \\ \alpha^{C} \end{pmatrix} x_{t} + \varepsilon$$

Socio-emotional skills engage in positive social interactions, cooperate with others, show empathy & maintain attention. Cognitive skills perform in cognitive tests, quant knowledge, reading & writing skills & fluid reasoning.

	Age 5	Age 11	Age 14
Cognitive	British Ability Scales: - Pattern construction - Vocabulary - Picture similarities	Teacher assessed ability in science, math, English, IT, and art.	APU Vocabulary Test
		British Ability Scales	
Socio-emotional	SDQ items	SDQ items	SDQ items
nvestment	Visit music events	Educational aspirations	N/A
	Visit art event	Extra lessons	
	Visit zoo	Books in home	
	Visit cinema	Plays Instrument	
	Library visits	Frequency talking to child	
	Parent read to child?	Father interest in education	
	Child has computer	Mother interest in education	
	Frequency of watching TV	Time spent with child	
	Number parents attended PA		
	Academic reason for attending school		

Findings

socio-emotional skills are as important as cognitive skills in achieving good GCSEs and decent wages

20% of highest performing pupils in cognitive tests who had average socio-emotional skills at age 14 fail to attain 5 good GCSEs including English and maths

for girls at age 14, socio-emotional skills 50% more impactful than cognitive skills for GCSE outcomes

Intergenerational earning elasticity up by 15%

Country	IGE
United Kingdom	0.5
Italy	0.5
United States	0.47
France	0.41
Japan	0.34
Germany	0.32
Australia	0.26
Canada	0.19
Finland	0.18
Norway	0.17
Denmark	0.15

Low cost equalising policies

- National programme of trained undergraduate tutors providing academic and mentoring support to help boost foundational skills of pupils
- Enrichment guarantee in schools so that all children benefit from wider activities outside the classroom that nurture socio-emotional skills
- National programme to measure pupils' wellbeing to create greater focus on wellbeing that is strongly linked to children's evolving skills
- Dedicated research programme to develop evidence-informed approaches to school parent and community partnerships
- Rebalancing Ofsted inspections to explicitly consider disadvantage in schools and credit those excelling when serving under-resourced communities
- o A new deal for teachers **clarifying working hours** and supporting a more balanced school calendar to improve the wellbeing of teachers and pupils

Questions/comments