

How redistributive is the school funding system?

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Brief Outline

- Descriptive summary of state funding per pupil
- Is funding redistributed toward deprivation or AEN?
 - How much extra resources do schools with such pupils get?
- Focus on the additional funding for deprived pupils
 - We measure this by the 'FSM premium'
 - How large is it and which sources of funding does it comprise?
 - How does LA discretion affect it?
- The responsiveness of funding to changes over time



State funding per pupil

- Mean school income per pupil was £3,470 in primary schools and £4,300 in secondary schools in 2006–07
 Figures exclude capital spending
- Steady annual growth in real terms since 2003–04
 - 3.5% in primary schools, 4.3% in secondary schools
- Two general sources:
 - Allocations from LA funding formula (chosen by LA)
 - Direct government grants (passed on by LA)
- Government grants are roughly 15% of income/pupil



















- To measure the degree of redistribution, we need to know what determines how much income a school gets
- We do not examine the actual formulae used to calculate allocations from central government and LAs
 - Many different classifications across LAs
- Instead we fit an *implicit* formula to the data by relating the actual income received to pupil numbers and characteristics
 - Describes the outcome of the funding system from schools' perspective, rather than the workings of the system itself



	Primary	Secondary	
Base amount per pupil			
Extra per FSM pupil			
Extra per EAL pupil			
Extra per SEN pupil with	Noto: All-amo	into in 2007, 08 prices	
statement	Note: All amou	ants in 2007–08 prices	Soction
Extra per SEN	Sources. Autr		Section



	Primary	Secondary	
Base amount per pupil	£2,141		
Extra per FSM pupil			
Extra per EAL pupil			
Extra per SEN pupil with			
statement	Note: All amou	ints in 2007–08 prices	
Extra per SEN	Sources: Auth	ors' Calculations using	Section 5



	Primary	Secondary	
Base amount per pupil	£2,141	£3,118	
Extra per FSM pupil			
Extra per EAL pupil			
Extra per SEN pupil with			
statement	Note: All amou	ints in 2007–08 prices	
Extra per SEN	Sources: Autho	ors Calculations using	Section 5



	Primary	Secondary	
Base amount per pupil	£2,141	£3,118	
Extra per FSM pupil	£1,531	£2,404	
Extra per EAL pupil			
Extra per SEN pupil with			
statement	Note: All amou	nts in 2007–08 prices	
Extra per SEN	Sources: Auth	ors' Calculations using	Section &



	Primary	Secondary	
Base amount per pupil	£2,141	£3,118	
Extra per FSM pupil	£1,531	£2,404	
Extra per EAL pupil	£283	(-£144)	
Extra per SEN pupil with statement	£9,711 Note: All amou	£8,855 Ints in 2007–08 prices	
Extra per SEN	Sources: Authority	ors' Calculations using	Section 52



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Evolution of FSM premium Size relative to basic per-pupil amount





Composition of FSM premium Shares from each source



Sources: Authors' Calculations using Section 52



The FSM premium

- Government grants are disproportionate share
 - Only constitute 15% of total income/pupil, but nearly half of secondary FSM premium
- Their share of FSM premium is growing
 While their share of total income/pupil is flat
- Government grants are more targeted on FSM than (discretionary) LA formula income
 - The degree of targeting is also increasing over time



- Do LAs pass on all the funding they receive for deprivation as the government would like?
 - Government has found evidence that LAs spread their deprivation funding around, making it less targeted
 - This is called 'flattening'
- Flattening will always occur to some extent
 - LAs must spend money on central services provision
- We focus on the remaining budget: the ISB
 - This must be spent *entirely* on schools



- We estimate implicit formulae for:
 - The total size of local authority ISBs
 - The allocation that schools receive from the ISB
- Test whether flattening exists by comparing the estimated FSM premiums in these formulae against each other



Comparison of FSM premiums, 2006–2007

	Primary	Secondary
FSM premium in ISB	£2,781	
FSM premium in school allocation from LA formula		



Comparison of FSM premiums, 2006–2007

	Primary	Secondary
FSM premium in ISB	£2,781	£2,415
FSM premium in school allocation from LA formula		



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FSM premium in school allocation from LA formula	£1,020	£1,257

- FSM premium received by LAs is roughly double the FSM premium that received by schools from LAs
 - LAs tend to spread their budget out in a manner less redistributive than the government intends



Extent of flattening over time





Which LAs flatten the most?

- LAs with high levels of disadvantage may spread out their ISB more evenly
 - FSM premium might be a blunt instrument
 - Schools would then receive less deprivationbased funding, but a higher basic per-pupil amount
- We explore this by seeing how the allocations schools receive from their LA vary by:
 - LA deprivation level (prevalence of FSM)
 - Region of England



Variation by LA deprivation level Secondary schools, 2006–2007

	Basic per-pupil	FSM premium
Least deprived LAs	£2,660	£1,623
Second-least deprived LAs	£2,930	£2,251
Moderately deprived LAs	£2,746	£1,542
Second-most deprived LAs	£2,954	£1,468
Most deprived LAs	Note: All amounts i	h 2007–08 prices Calculation S Aiby Section 5



- Have looked at link between *current* pupils and *current* financial resources
 - In this sense, the system is overall very redistributive
- Can also look at dynamic aspects
 - How do total resources react to changes in needs?
- Similar analysis to before
 - Instead of levels, look at the impact of



Impact of changes in pupils between 2005– 06 and 2006–07



Impact of changes in pupils between 2005– 06 and 2006–07

	Primary	Secondar y
Base amount per additional pupil		
Extra per additional FSM pupil		
Extra per additional EAL pupil		
Extra per additional SEN pupil with statement		



Impact of changes in pupils between 2005– 06 and 2006–07

	Primary	Secondar y
Base amount per additional pupil	£1,843	£2,474
Extra per additional FSM pupil	(-£99)	(£528)
Extra per additional EAL pupil	£640	£488
Extra per additional SEN pupil with statement	£1,824	(£1,486)



- Levels of pupil characteristics important, but short-run changes in these are less so
 - Funding responds slowly and partially
- Potential explanation for inertia: importance of historical funding levels and characteristics
 - e.g. Minimum Funding Guarantee (MFG)
 - % increase on previous per-pupil funding level
 - Fluctuations can be offset by top-up payments
- 2004 Audit Commission report highlights this unintended consequence of MFG



Summary

- Consistent growth in funding masks large dispersion in per-pupil resources
- Current funding heavily concentrated in schools with greater severity of deprivation/AEN
 - LA formula funding tends to be less targeted, especially in disadvantaged areas
- Reallocation on basis of changing needs is weak
 - Ties in with idea of buffering/stability