

# Teacher retention seminar

20 March 2018

# Welcome!



**Teacher retention  
seminar**

**20 March 2018**

Session 1. 'Government initiatives to improve teacher retention'

*Chair: Professor David Read, University of Southampton*

Gareth Conyard, Department for Education

**Teacher retention  
seminar**

**20 March 2018**

Session 2. 'Teacher retention: facts and factors'

*Chair: Professor David Read, University of Southampton*

Nick Creagh, TES Global Ltd



# Teacher Retention Facts and Factors

Nick Creagh – Tes Global



# Welcome!

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## **When teachers go**

*understanding the difference between Teacher Recruitment; School Recruitment; and, Retention*

## **Where it hurts – STEM**

*the shortage of Maths teachers across the country*

## **How teachers think**

*an analysis of news articles published on Tes.com in the last 12 months  
the results of survey & segmentation work with YouGov in Jan '17*

## **What next**

# When teachers go

Understanding the difference between Teacher Recruitment, School Recruitment, and Retention

# Teacher recruitment and retention: How does it work?

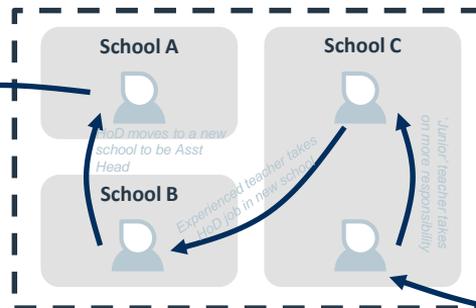
1

## Teacher exits profession

- Retirement
- Quitting teaching to work in other sector
- Moving to teach abroad
- Some short-term absences
- [New role created]

2

## School recruitment



3

## New entrant enrolment

- NQTs and trainees
- Returners to teaching
- International returners
- [Role redundancy]

### Solved by improved retention

- Workload and staff management
- UK profession competitiveness
- Career management, training and CPD

System issue

### Solved by recruitment best practice

- Increased school attractiveness
- Standing out from the crowd
- Thinking about recruitment differently
- Improved school retention policies

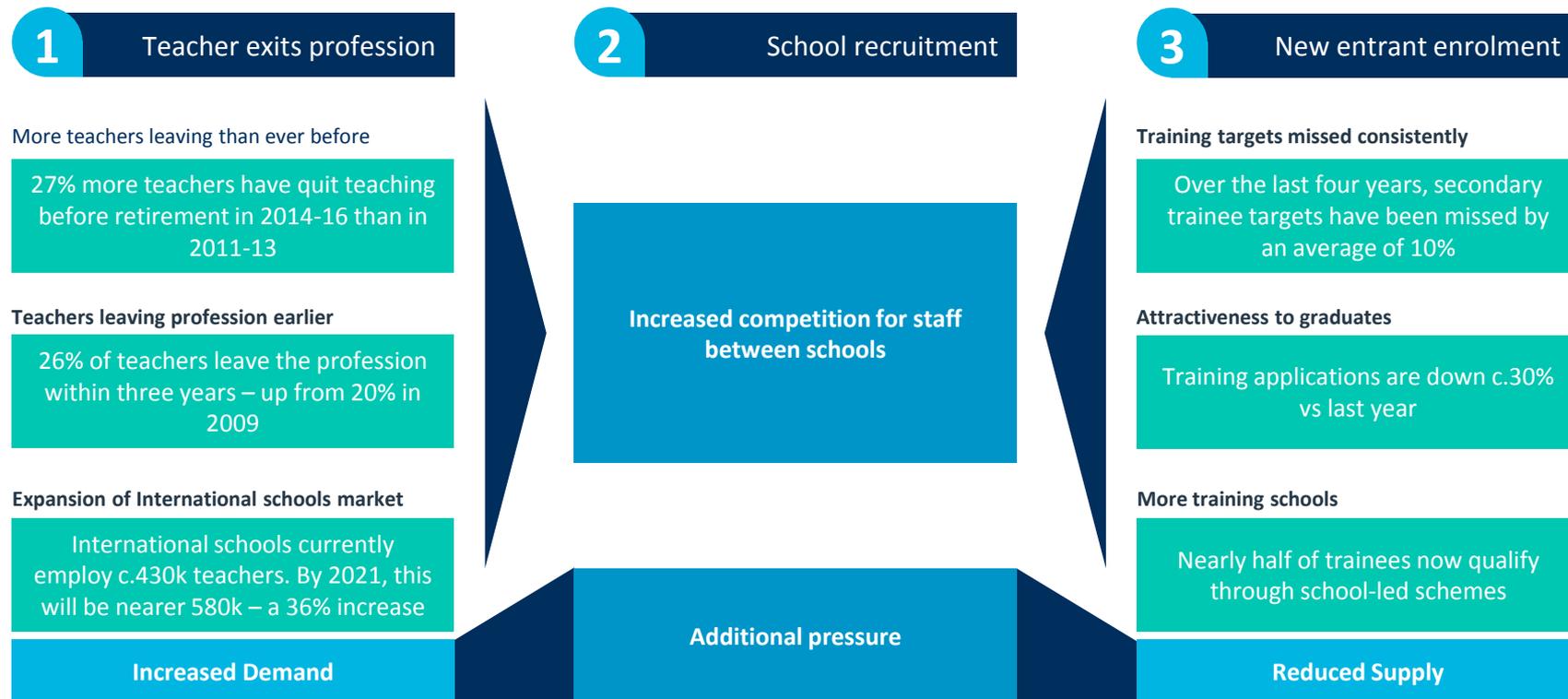
School issue

### Solved by improved enrolment

- Profession attractiveness
- Alternative routes into teaching
- School funding / income / efficiency

System issue

# Teacher recruitment and retention: Why is it hard?



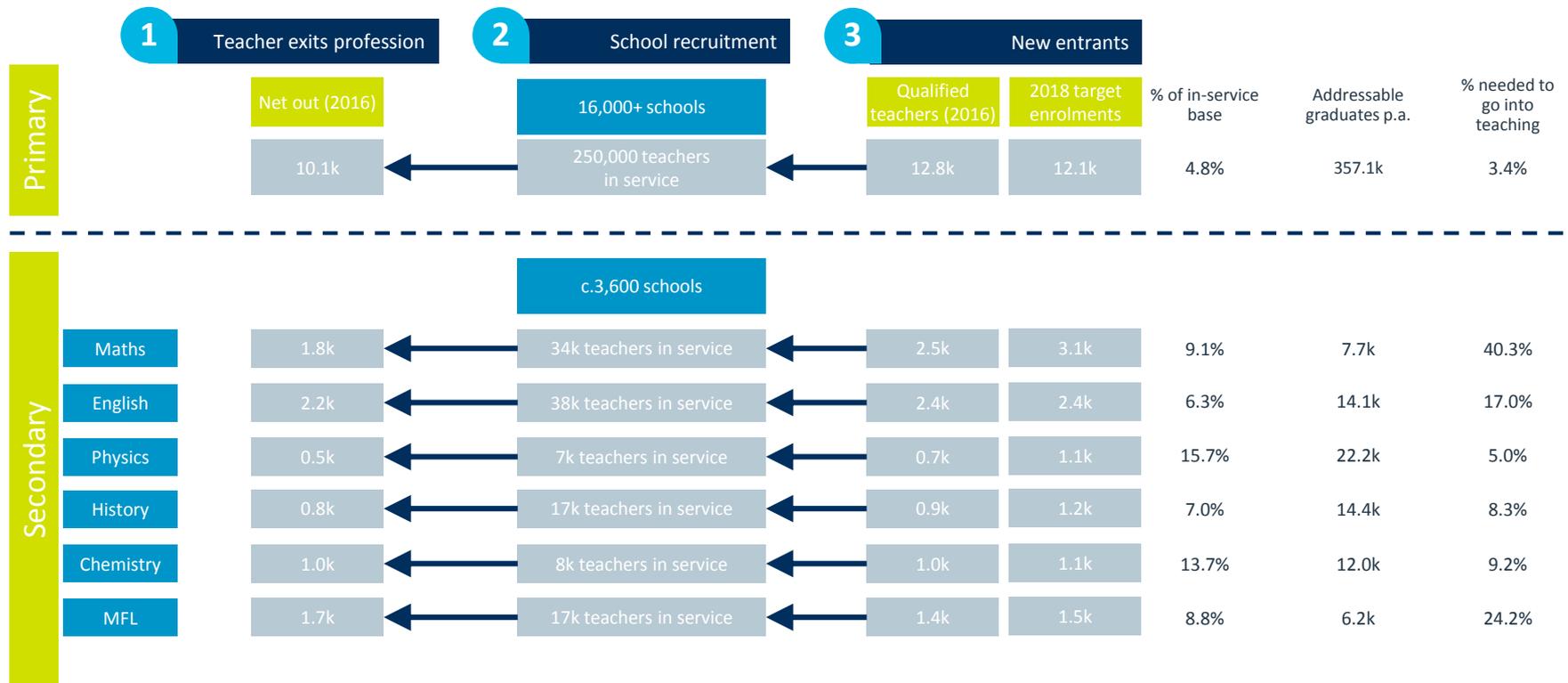
# Where it hurts

The shortage of Maths teachers across the country

# School recruitment is tough – STEM recruitment is brutal



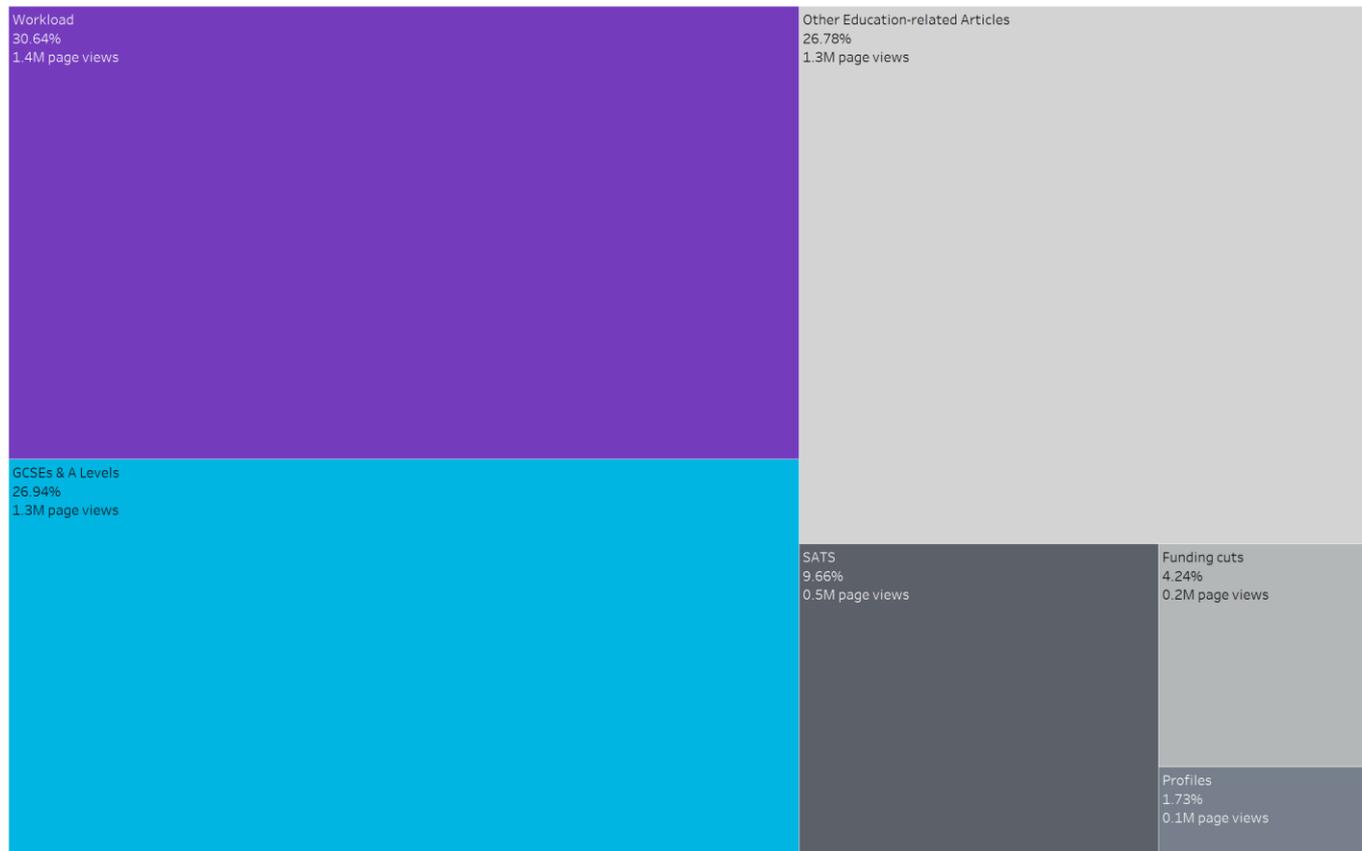
Higher turnover, smaller pools – and more specialist graduates



# How teachers think & What teachers believe

YouGov surveys and Tes News articles

# What teachers read – a guide to what teachers think?



30.6%

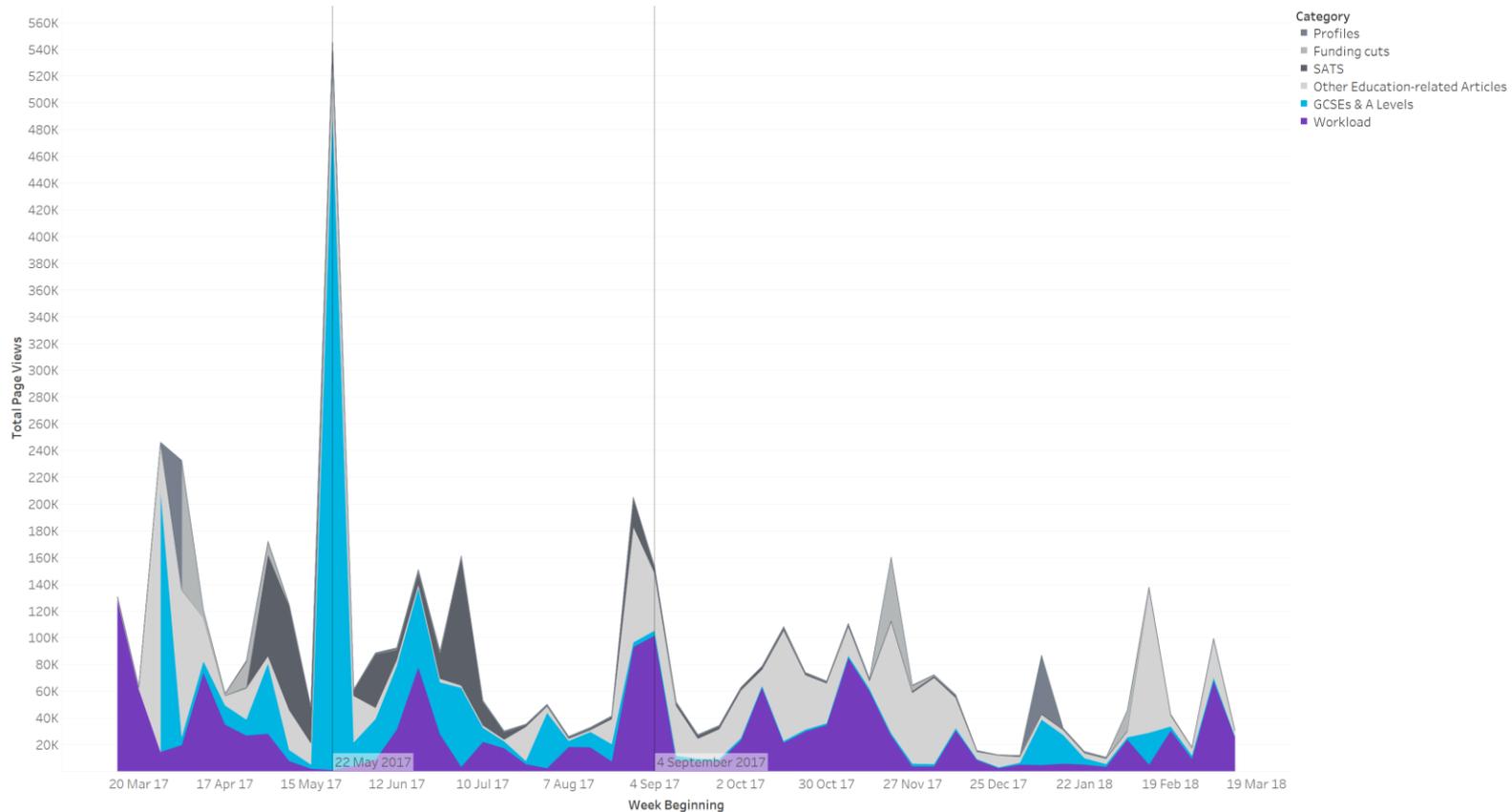
Page views of articles on teacher workload

26.9%

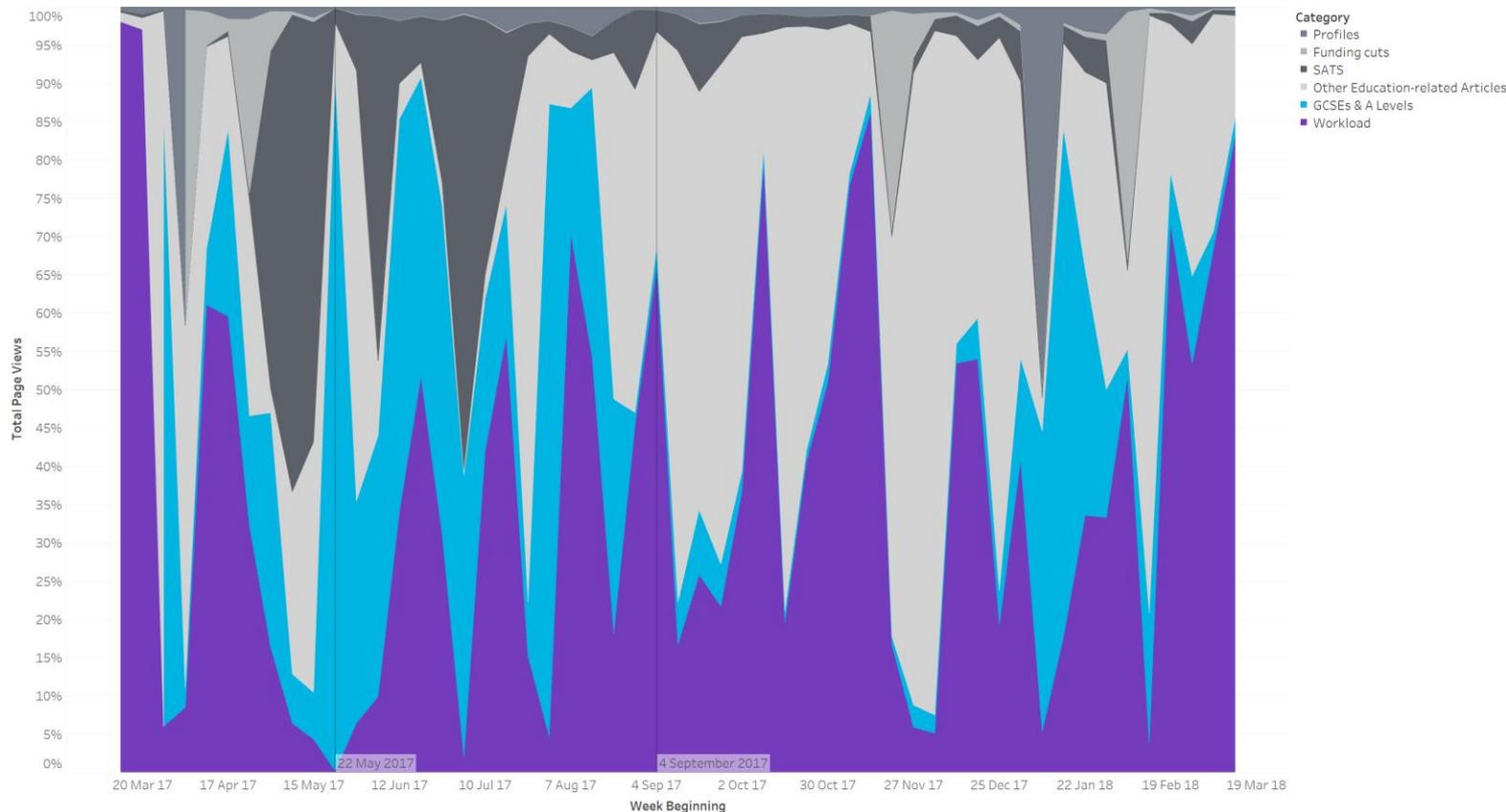
Page views of articles on examination concerns / errors

It's no surprise teachers read problem stories...

# ... and they usually read exam stories during exam time...



# ... but workload stories are read consistently all year round.



- Tes & YouGov surveyed 1,000 teachers from across the UK following up with focus groups and interviews
- Looked at:
  - Attitudes to teaching (policy & practice)
  - Digital and online behaviours
  - Classroom behaviours
- Derived six segments to understand the difference in attitudes and behaviours

# Understanding our audience – What teachers believe



## Teacher A *The Bedrock*

29% of the teaching population

- Stressed out due to time and paperwork pressures
- Traditional
- Structured
- Principled
- Resistant to change
- Value credibility, reliability and accuracy



## Teacher B *The Champion*

17% of the teaching population

- Time poor
- Optimistic
- Active planners
- Creative & Flexible
- Digitally savvy
- Confident
- Fearful of change



## Teacher C *The Disillusioned Crusader*

21% of the teaching population

- Passionate & Opinionated
- At risk of burnout due to perceived lack of autonomy & support
- Pessimistic
- Strict
- Perfectionists
- Principled
- Value resilience & determination



## Teacher D *The Muse*

15% of the teaching population

- Creative
- Flexible
- Relaxed
- Inquisitive
- Love the good things in life
- Sociable
- Sharing
- Child-centred



## Teacher E *The Careerist*

10% of the teaching population

- Driven & Focused
- Proactive
- Career-minded
- Sharing
- Value efficiency
- Action-oriented
- Fact-seeking; driven to find and use information



## Teacher F *The Maverick*

8% of the teaching population

- Confident
- Opinionated
- Passionate
- Bullish
- Courageous
- Sociable
- Connected
- Flexible
- Unique

# 50%

Population in a segment  
at risk of leaving

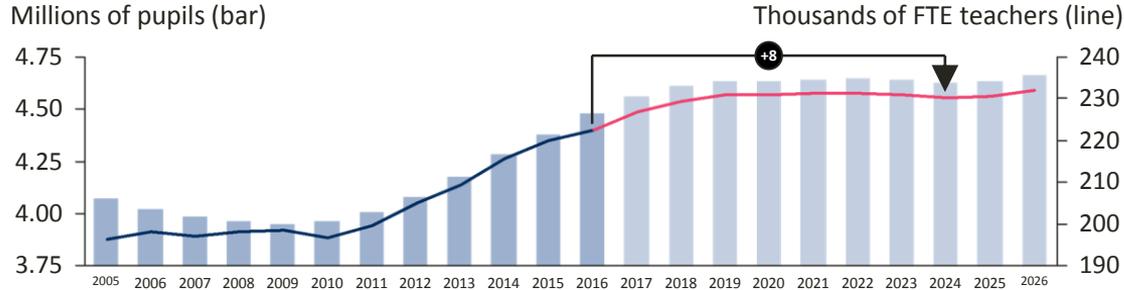


# What next?

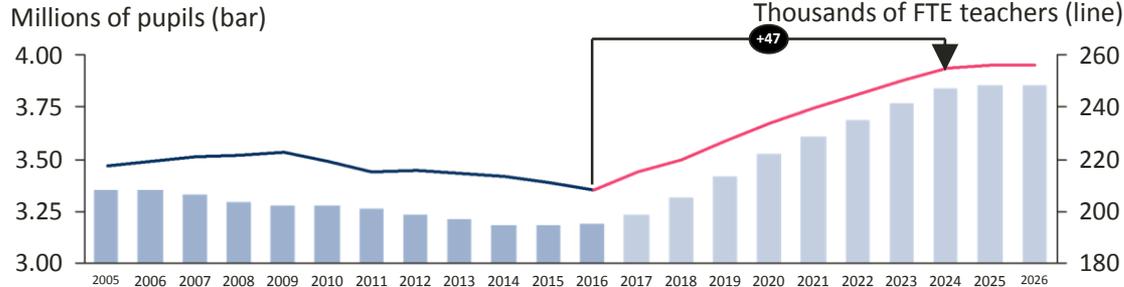
# Primary and secondary schools: teachers and pupils



## Primary FTE Pupils and Teachers, actual and estimated



## Secondary FTE Pupils and Teachers, actual and estimated



- In 2015, the IFS predicted the number of teachers would need to increase by 30,000 between 2016 and 2020
- Using a similar but updated methodology, Tes predict this to be 34,000 teachers between the same period
- If we extrapolate further taking into account future pupil projections, schools would need an extra 47,000 secondary teachers and 8,000 primary teachers by 2024



# Questions?

**Teacher retention  
seminar**

**20 March 2018**

Session 3. 'New insights: findings from the past year'

*Chair: Nicole Morgan, Royal Society of Chemistry*

Jack Worth, National Foundation for Educational Research

Nancy Wilkinson, The Wellcome Trust

Jenni French, The Gatsby Charitable Foundation

Sam Sims, Education Datalab



Evidence for  
Excellence in  
Education



# Teacher Retention

## Is The Grass Greener Beyond Teaching?

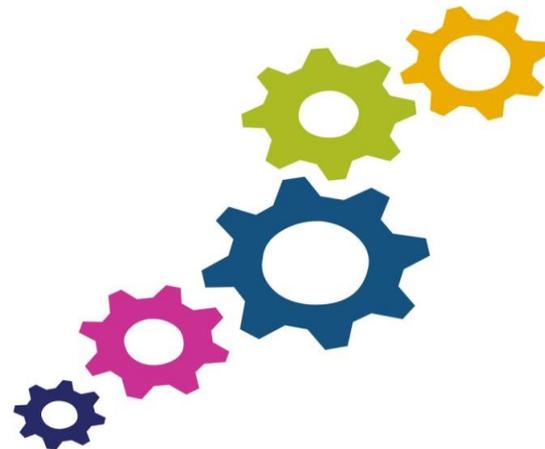
**Jack Worth**

Teacher retention seminar at Royal Society

Tuesday 20<sup>th</sup> March 2018

[j.worth@nfer.ac.uk](mailto:j.worth@nfer.ac.uk)

@worth\_jack @TheNFER



Public

● independent ● insights ● breadth ● connections ● outcomes



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Education

# NFER teacher workforce research

- Nuffield Foundation-funded research on teacher retention and turnover
  - Identifying factors affecting teachers leaving and moving
  - Exploring destinations of teachers who leave
  - Comparing teaching with nursing and policing
- Research with Greater London Authority on London's teacher labour market
- [www.nfer.ac.uk/research/school-workforce](http://www.nfer.ac.uk/research/school-workforce)

# Methods for researching teacher retention

- Survey teachers, identify those considering leaving
  - *Engaging Teachers (NFER 2016)*
  - Intentions  $\neq$  actions
- Survey ex-teachers
  - Very difficult to get a representative sample
- Administrative data, e.g. School Workforce Census
  - Little reliable data on post-teaching destinations
- Employment surveys, e.g. Labour Force Survey
  - *Should I Stay or Should I Go? (NFER 2015)*
  - *Is The Grass Greener Beyond Teaching? (NFER 2017)*



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Education

# Understanding Society

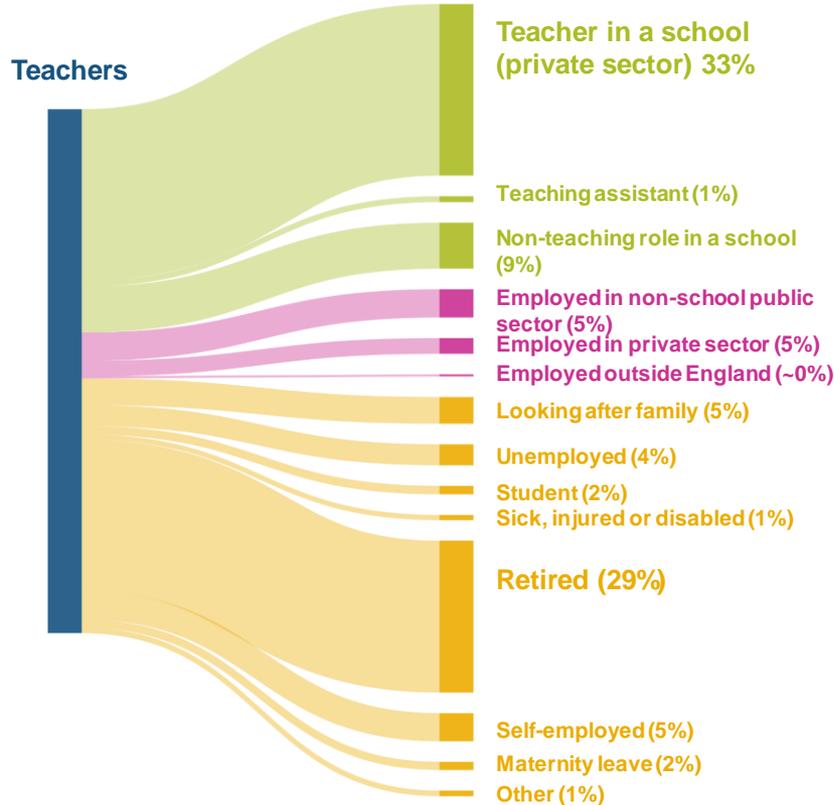


Understanding Society  
THE UK HOUSEHOLD LONGITUDINAL STUDY

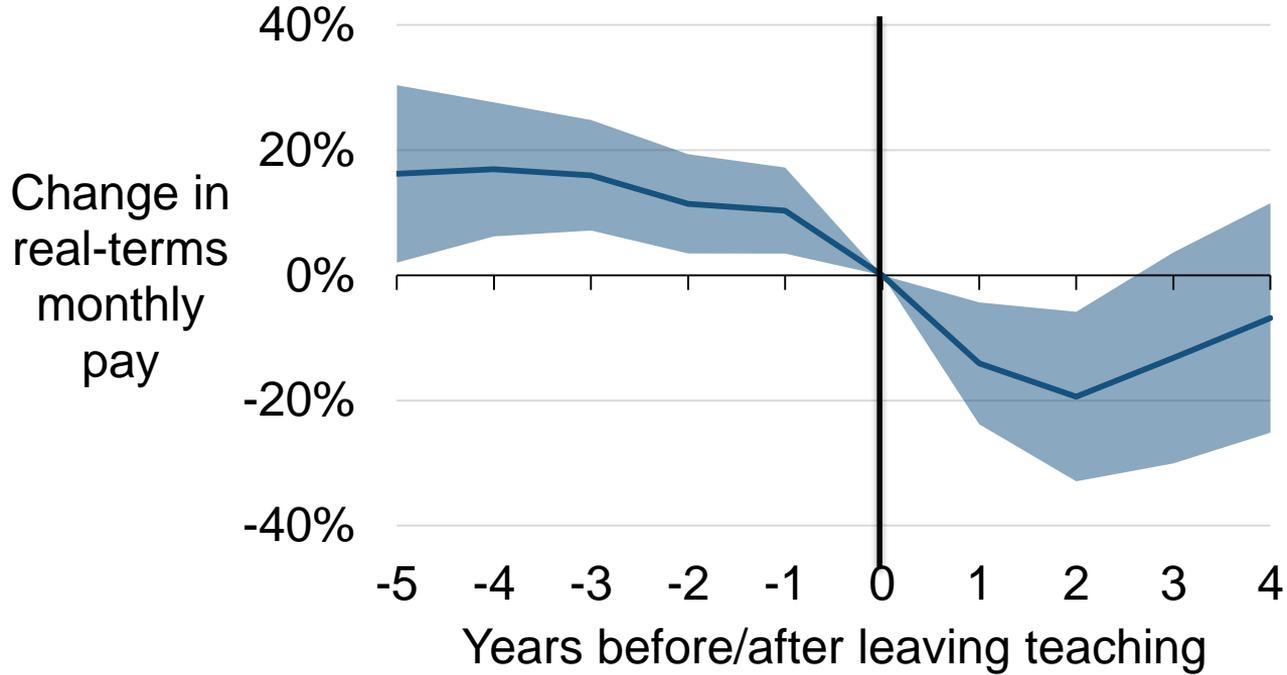
- Use data from the Understanding Society survey
- Survey of 40,000 UK households
- Longitudinal follow-up of every individual
- Seven waves of data (2009/10 – 2015/16)
- Extensive data on individuals' employment, education, family life, health and well-being
- 1,205 state-sector teachers in England, 444 leavers



# Where do teachers go?



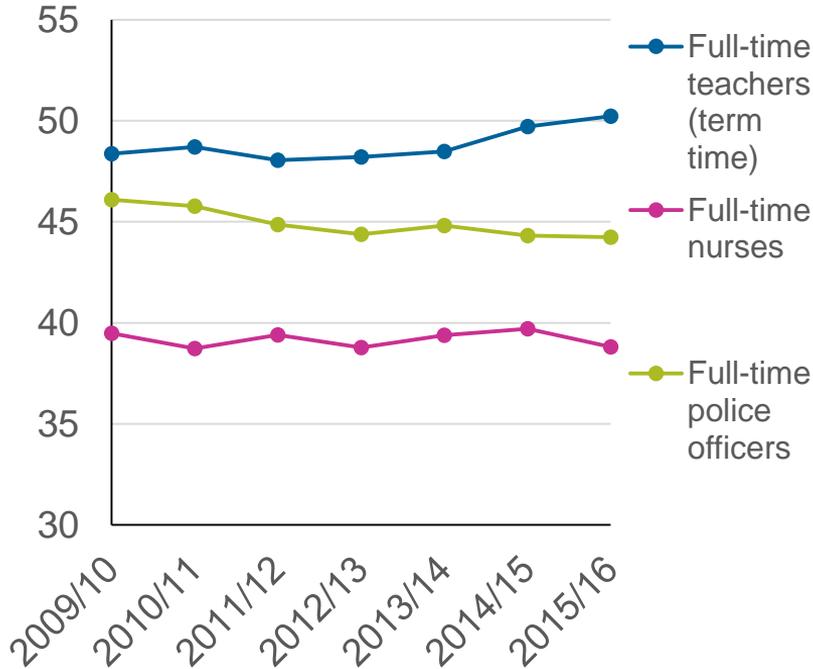
# What happens to their pay?



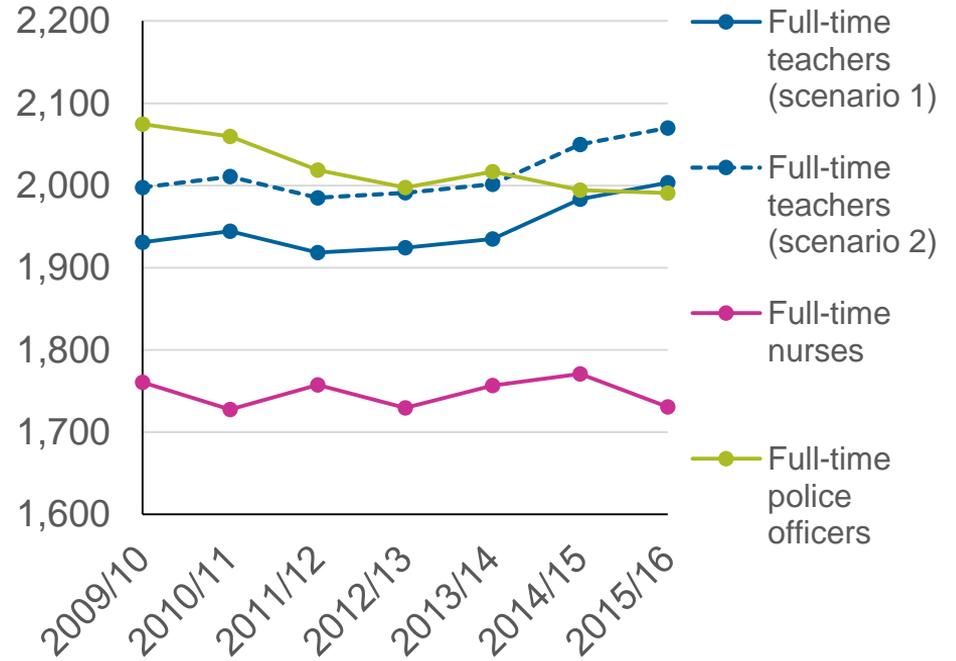


# Teachers work long hours

## Average weekly working hours

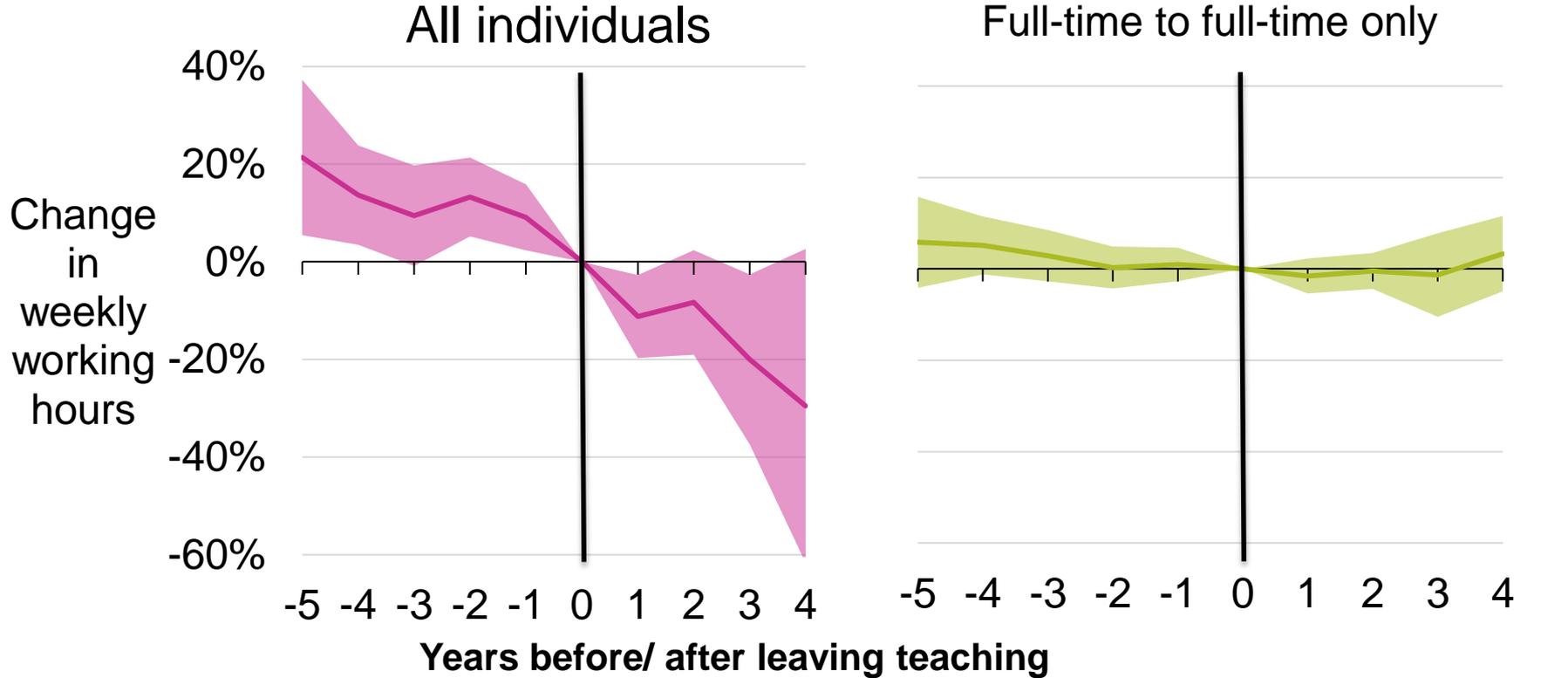


## Total annual working hours

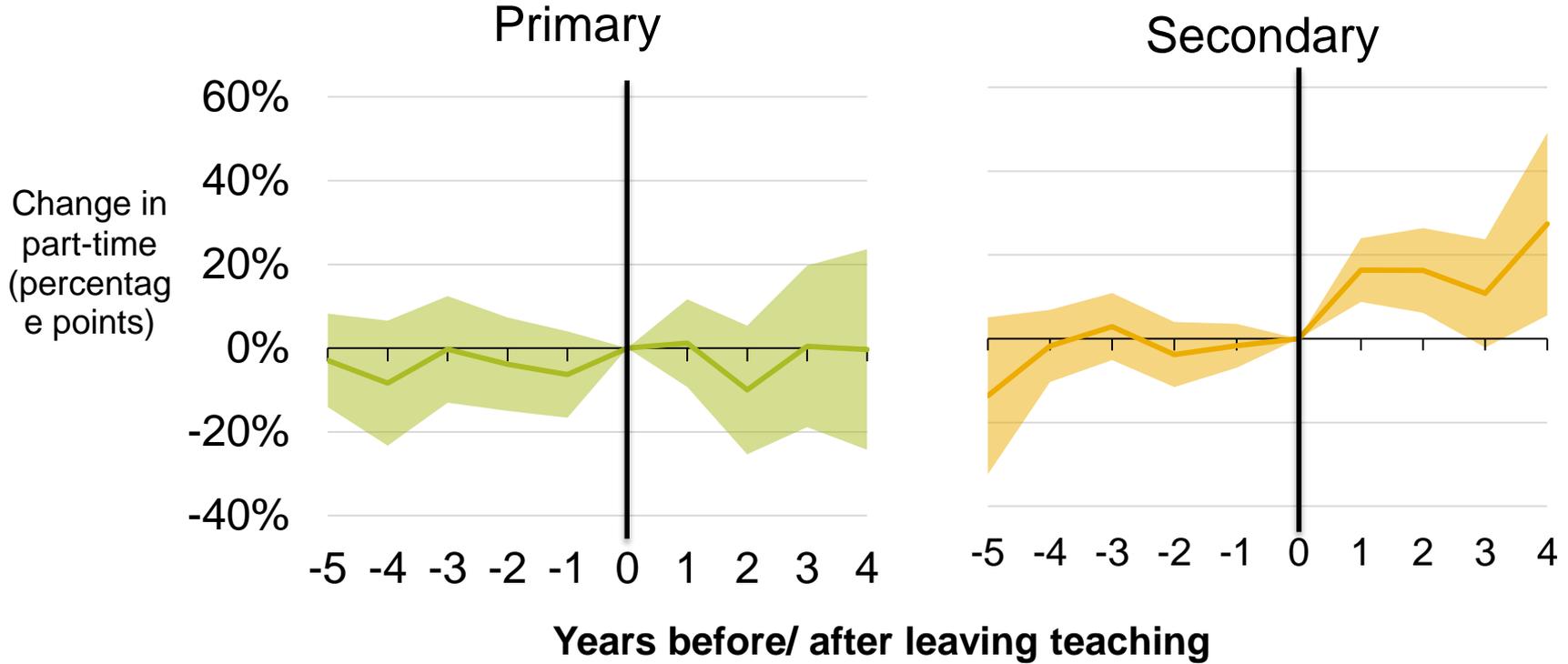




# What happens to working hours after leaving?

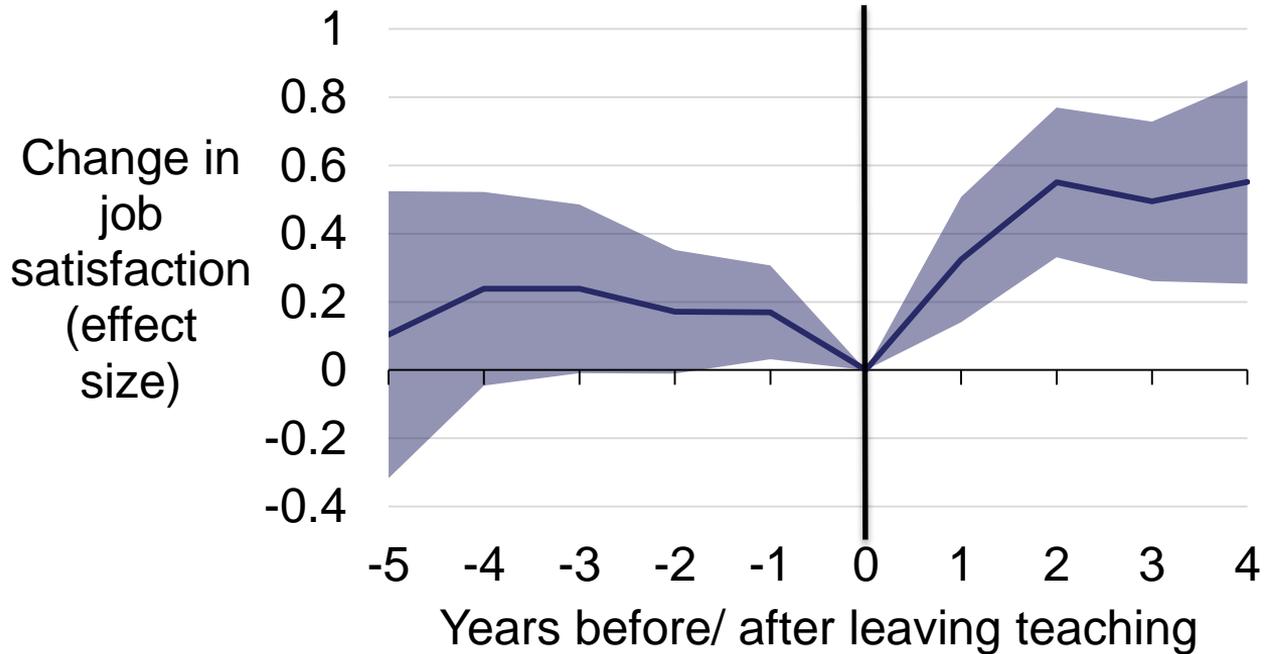


# What happens to part-time working?





# What happens to job satisfaction?





# Conclusions

- Leavers are not primarily motivated by increased pay
  - More motivated by improved job satisfaction and more flexible working arrangements
- Doesn't necessarily imply that increasing teachers' pay will have no impact on teacher retention
  - Increase must compensate for lower job satisfaction
- Are STEM teachers different?
  - Better outside option than most teachers
  - But they are still teachers!



**Evidence for  
Excellence in  
Education**

**NFER provides evidence for excellence through its independence and insights, the breadth of its work, its connections, and a focus on outcomes.**



This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

**Public**

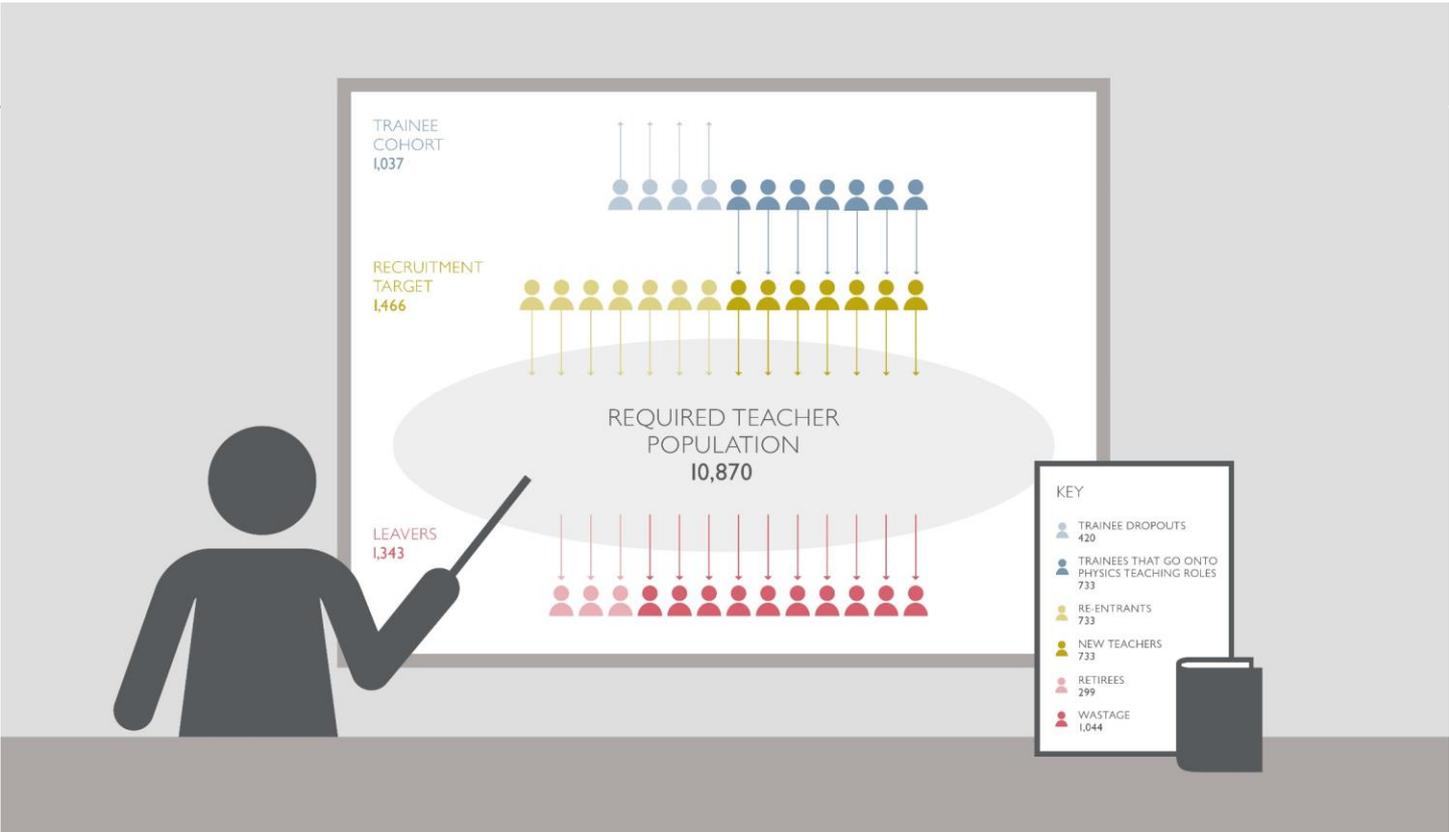
**National Foundation for Educational Research  
The Mere, Upton Park  
Slough  
Berkshire  
SL1 2DQ**

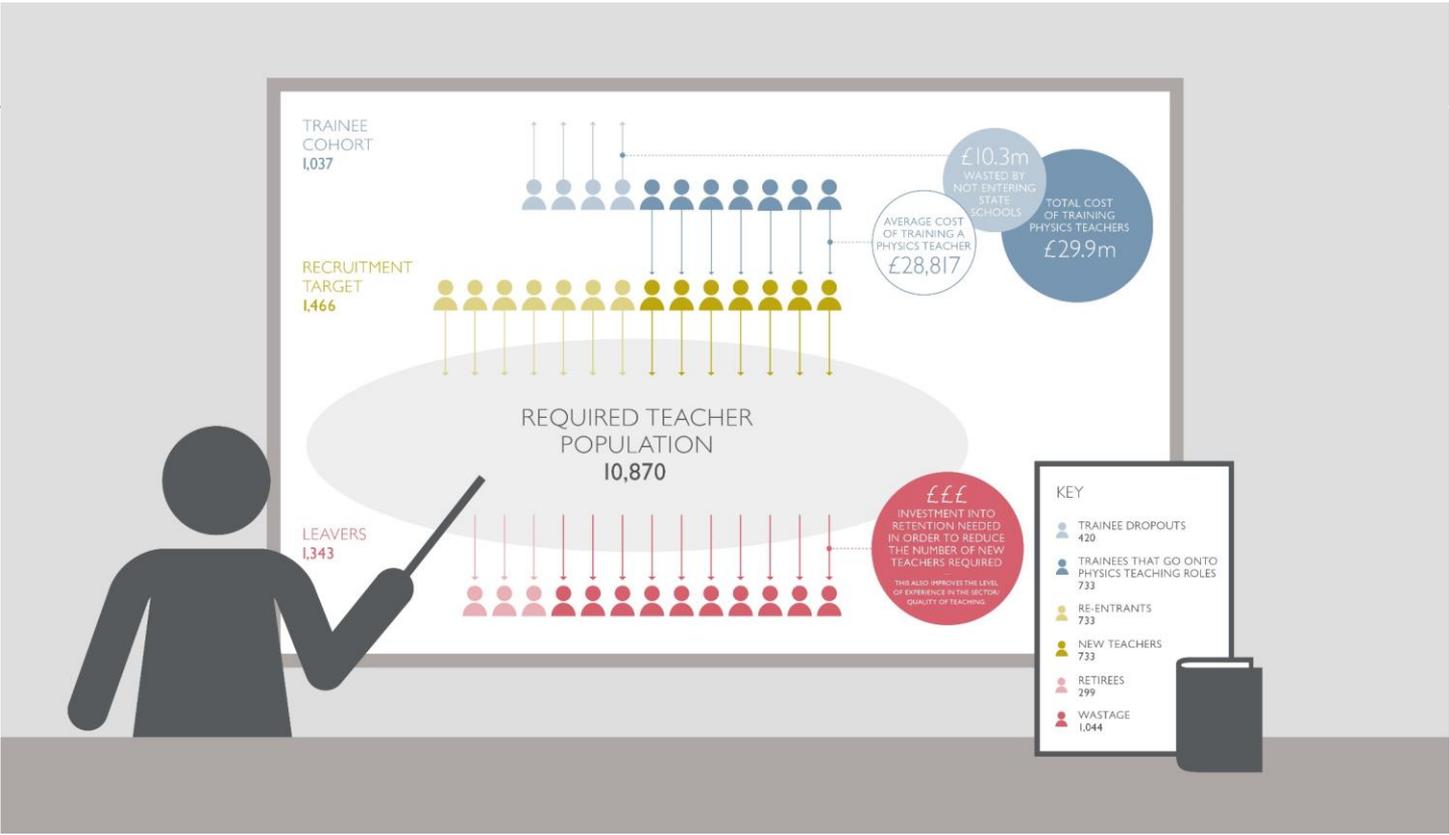
**T: 01753 574123  
F: 01753 691632  
E: [enquiries@nfer.ac.uk](mailto:enquiries@nfer.ac.uk)  
[@TheNFER](https://www.nfer.ac.uk)  
[www.nfer.ac.uk](http://www.nfer.ac.uk)**

# THE ROLE OF SALARY IN RETAINING TEACHERS



GATSBY





**KEY**

- TRAINEE DROPOUTS  
420
- TRAINEES THAT GO ONTO PHYSICS TEACHING ROLES  
733
- RE-ENTRANTS  
733
- NEW TEACHERS  
733
- RETIREES  
299
- WASTAGE  
1,044



# CHARACTERISING THE EARNINGS AND OUTCOMES FOR PHYSICS TEACHERS

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***REBECCA ALLEN, JACK BRITTON, LUKE SIBIETA AND  
ANNA VIGNOLES***  
IFS

Uses sources including HMRC and Labour Force Survey data and School Workforce Census to look at the career and earnings of physics graduates compared with graduates of other subjects.

# KEY FINDINGS

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Physicists outside of teaching generally earn more than other graduates and have more career options available to them.

In schools, physics graduates seem to earn the same or even less than other teachers despite having higher prior achievement. **Schools are not using their freedom of pay to reward physics teachers more than teachers in non-shortage subjects.**

Physics graduates are more likely than the average teacher of other subjects to leave both their school and the profession as a whole. **Forty per cent of physics graduates who are teaching six- months after graduation leave the profession within three and a half years of graduation.**

# THE ROLE OF SALARY IN RETAINING TEACHERS



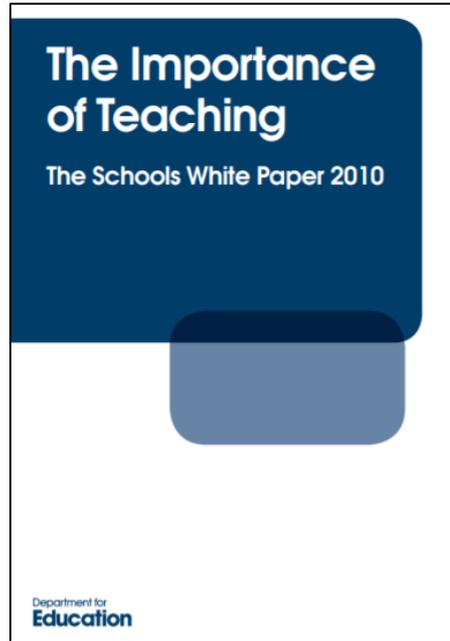
GATSBY



# Why do we have a teacher shortage? Things we learned in 2017.

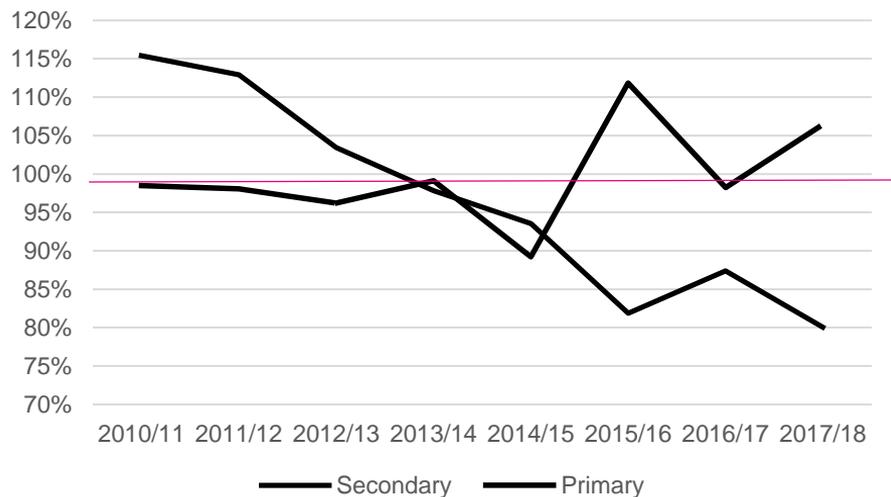
Sam Sims  
@sam\_sims\_  
Sam.sims@fft.org.uk

# Who remembers this?



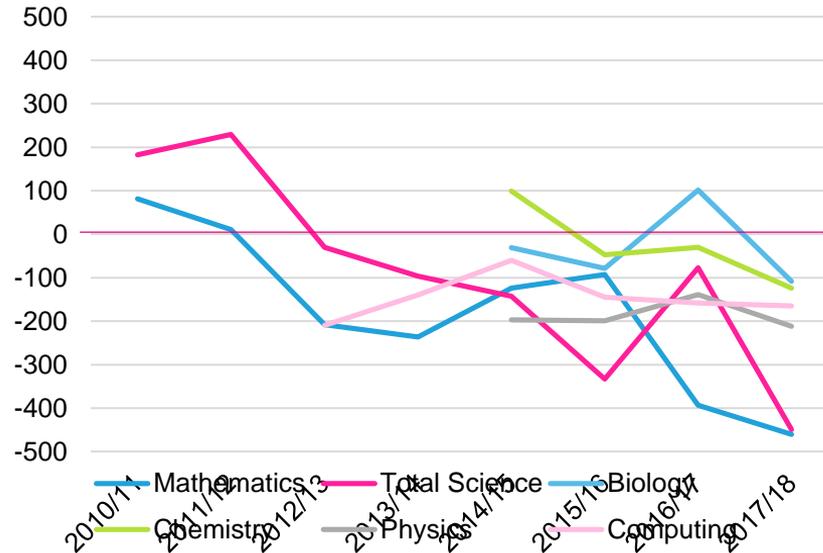
“In England, what is needed most of all is decisive action to free our teachers from constraint and improve their professional status and authority...”

# Recruitment against ITT targets



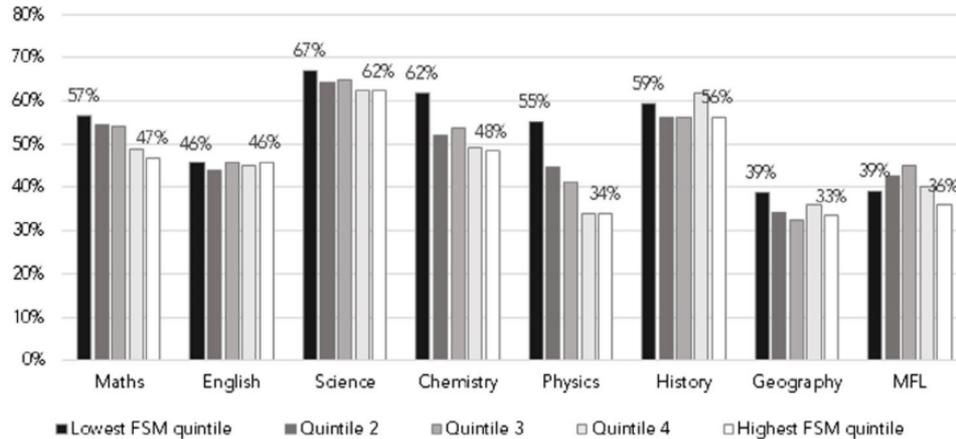
Source: Sims (Unpublished PhD Thesis)

# Teacher balance (STEM)



Source: Sims (Unpublished PhD Thesis)

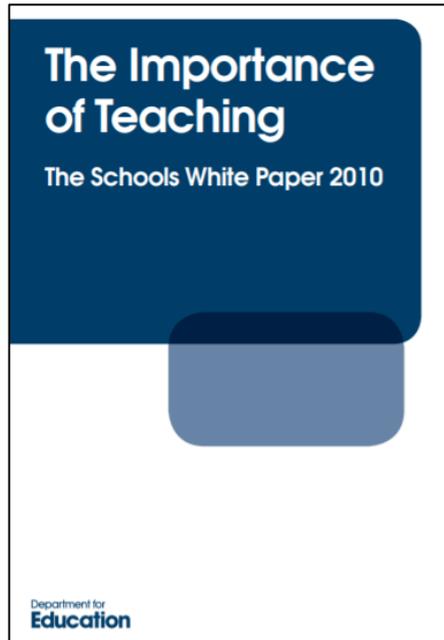
# Inequalities in access to subject-specialists



**Figure 3.** Proportion of teachers with an academic degree in the subject they are teaching by school deprivation quintile, upper secondary schools. Data labels refer to lowest and highest quintile bars. Note: n = (number of teachers in sample across all subjects) = 50,993.

Sims & Allen (2018)

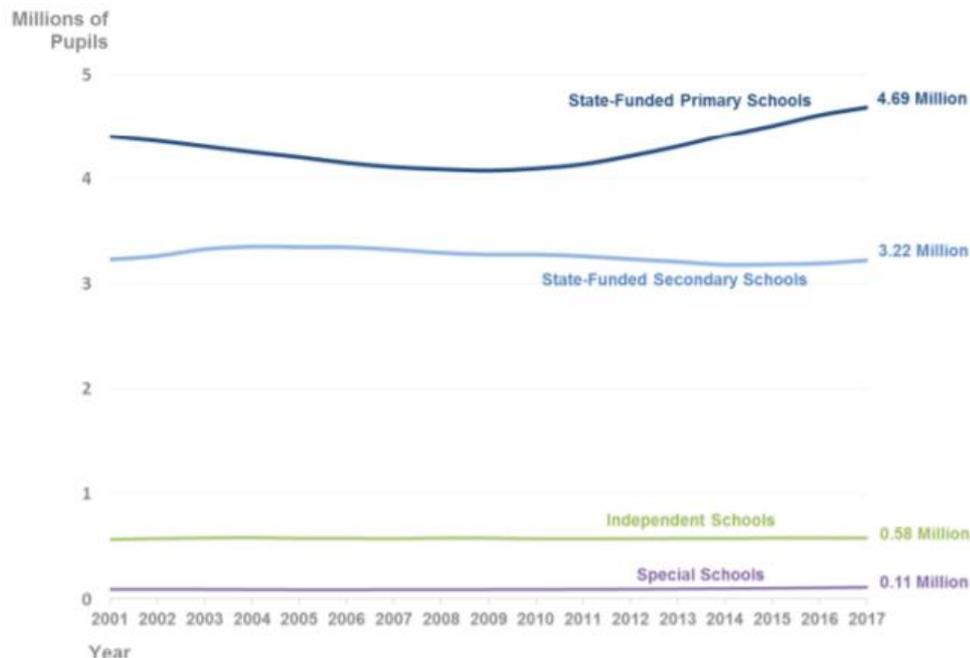
Oh dear.



# Suspects in the teacher shortage “whodunnit”

1. The Pupils (too many of them)
2. The Government (aren't paying enough)
3. Ofsted / Schools (put teachers off)

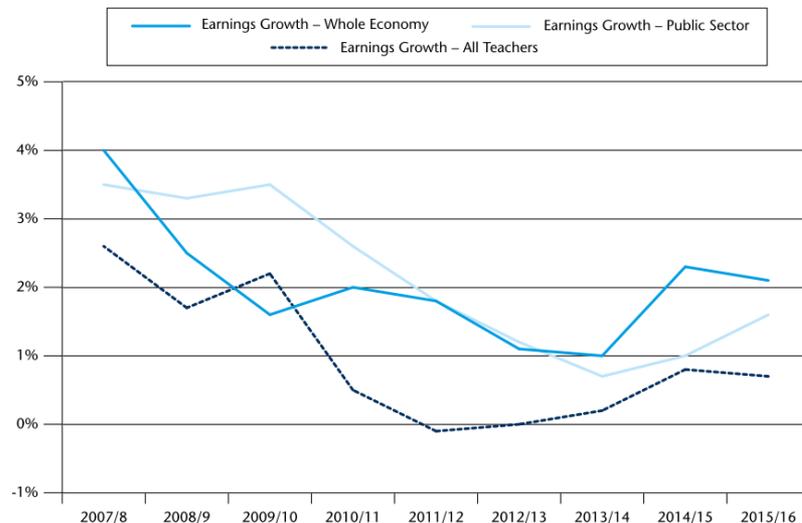
# Suspect 1: The Pupils (too many of them)



Source: DfE (2017)

# Suspect 2: The Govt (aren't paying enough)

Chart 3  
Growth in teachers' median earnings compared to economy-wide earnings growth, 2007/08 – 2015/16<sup>4</sup>



Source: STRB  
(2017)

# Suspect 2: The Govt (aren't paying enough)

*Table 1: Average Career-Wide Earnings Inside and Outside Teaching by Degree Subject*

	Degree Subject	Median Salary of Teachers	Median Salary of Non-Teachers	Difference (for Teachers)
Non-teachers are paid more	Physics	£31,600	£38,000	-£6,400
	Maths	£35,500	£40,000	-£4,500
	All Science	£32,000	£35,000	-£3,000
	Biology	£31,000	£32,600	-£1,600
Teachers are paid more	English	£28,000	£25,300	£2,700
	MFL	£31,200	£27,700	£3,500
	History	£34,100	£29,400	£4,700
	PE.	£33,100	£25,000	£8,100

**Note:** Shows only selected subjects. Chemistry not shown due to small sample sizes. This should not be interpreted as causal evidence, because differences in pay may be due to the type of people who choose to go into teaching, as well as being due to the job itself. Source: <sup>16</sup>

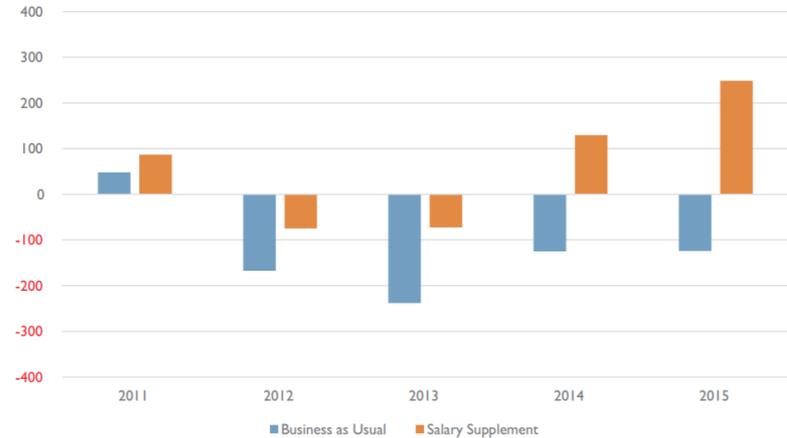
Source: Sims (2018)

# Suspect 2: The Govt (aren't paying enough)

Figure 8: Science Teacher Balance



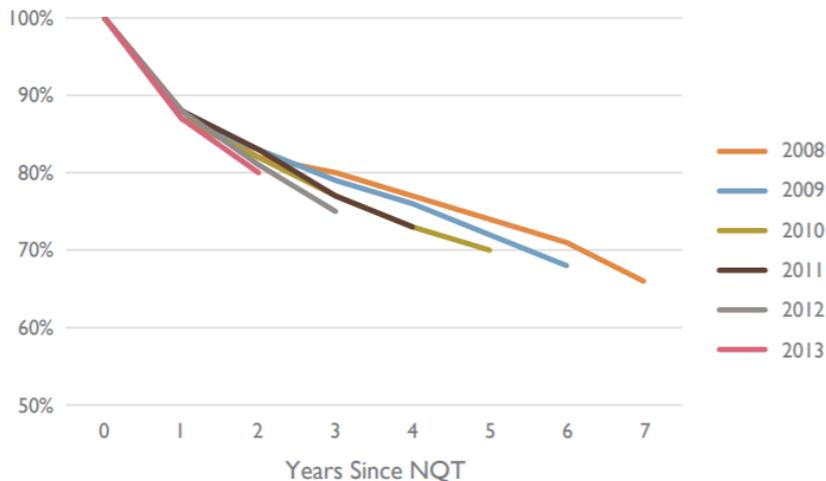
Figure 9: Maths Teacher Balance



Source: Sims (2018)

# Suspect 3: Ofsted/Schools (put teachers off)

Figure 2: Proportion of Cohort Still in Teaching



Source: Sims (2018)

If early-career retention frozen at 2009 levels, there would now be an additional 4,398 teachers.

For context, the total shortfall of EBACC teachers is currently 2,080.

# Suspect 3: Ofsted/Schools (put teachers off)

Figure 2. Proportion of teachers in NQT year 2010–14 for all state-funded schools

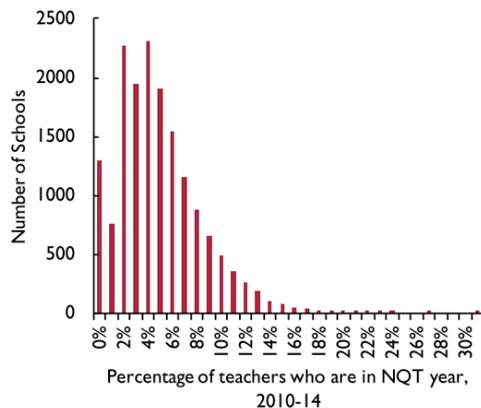
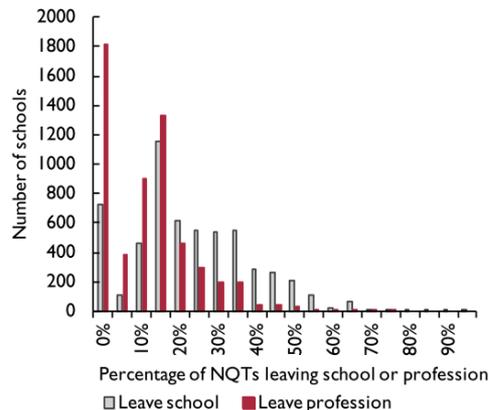


Figure 3. Proportion of teachers in NQT year that leave school or profession 2010–14 for all state-funded schools

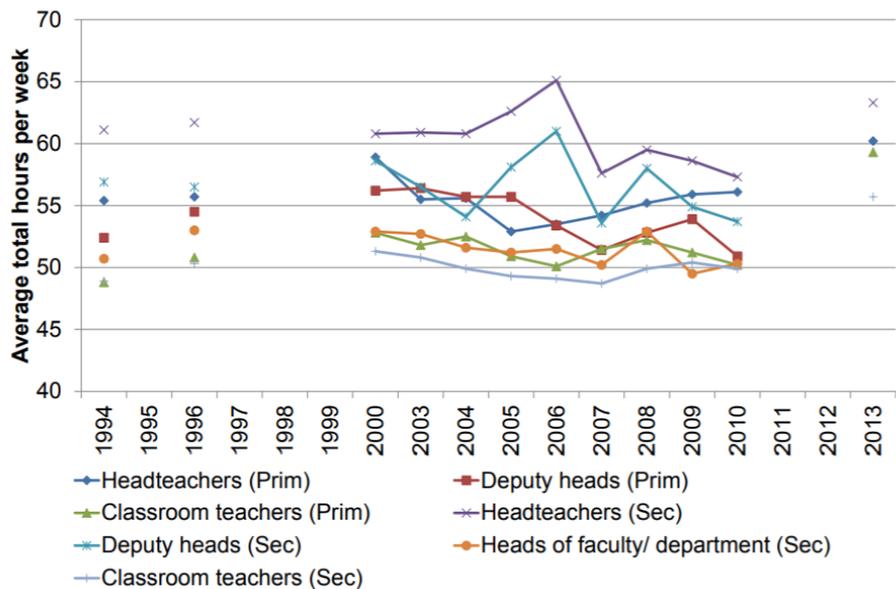


Sims & Allen  
2018

- 577 NQTs left these schools 2010-14
- “Excess attrition” of 376 NQT teachers
- Equivalent to 22 per cent of the nationwide shortfall in 2015

# Suspect 3: Ofsted/Schools (put teachers off)

Figure 1.1: Average weekly hours worked by type of teacher, 1994-2013

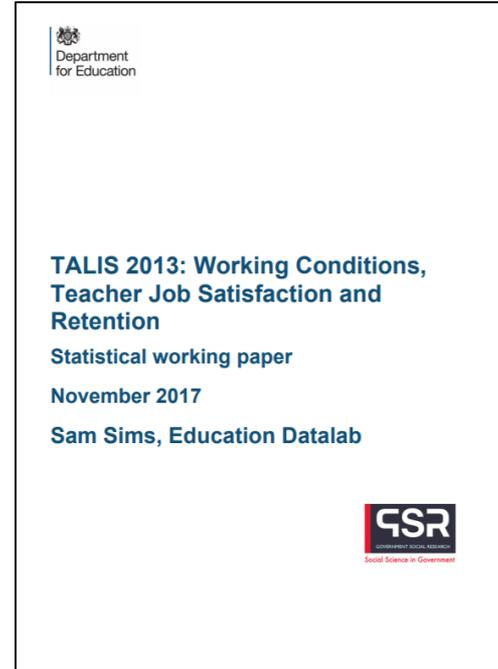


# Suspect 3: Ofsted/Schools (put teachers off)

Teacher characteristics are not related to job satisfaction or turnover intentions.

Working conditions really do matter:

- leadership/management
- teacher collaboration
- discipline
- workload
- CPD



# Improving retention through leadership

*Educational Evaluation and Policy Analysis*  
September 2015, Vol. 37, No. 3, pp. 314–332  
DOI: 10.3102/0162373714549620  
© 2014 AERA. <http://eepa.aera.net>

## **Exploring the Causal Impact of the McREL Balanced Leadership Program on Leadership, Principal Efficacy, Instructional Climate, Educator Turnover, and Student Achievement**

**Robin Jacob**

*University of Michigan*

**Roger Goddard**

*Ohio State University*

**Minjung Kim**

*University of South Carolina*

**Robert Miller**

*Texas A&M University*

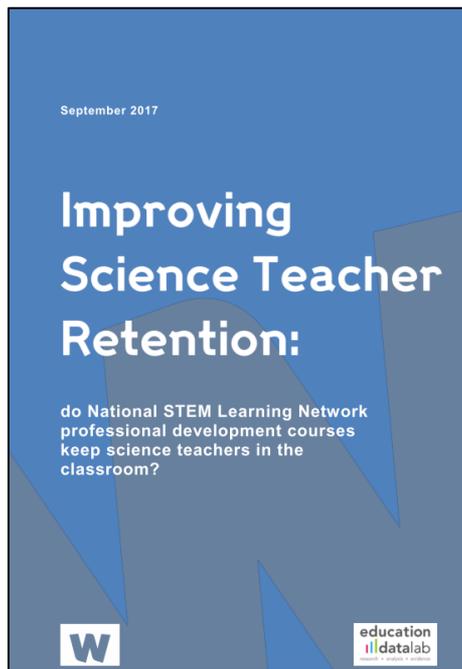
**Yvonne Goddard**

*Ohio State University*

*This study uses a randomized design to assess the impact of the Balanced Leadership program on principal leadership, instructional climate, principal efficacy, staff turnover, and student achievement in a sample of rural northern Michigan schools. Participating principals report feeling more efficacious, using more effective leadership practices, and having a better instructional climate than control group principals. However, teacher reports indicate that the instructional climate of the schools did not change. Furthermore, we find no impact of the program on student achievement. There was an impact of the program on staff turnover, with principals and teachers in treatment schools significantly more likely to remain in the same school over the 3 years of the study than staff in control schools.*

**Keywords:** *randomized design, principal professional development, teacher turnover, principal turnover, principal leadership, principal efficacy*

# Improving retention through CPD



# Summary

Pay matters for STEM graduates

Govt is now commissioning evaluations of the Phased Maths Bursaries, which will help us understand this more

Workload is one among several working conditions that relate to retention

We need more evidence on is the causal effect of working conditions on retention and what **policymakers and school leaders can do to improve them** (GL, ASCL)

**Teacher retention  
seminar**

**20 March 2018**

Session 4. 'Supporting a Government-led strategy on retention'

*Chair: Professor David Read, University of Southampton*

Verity Prime, Department for Education