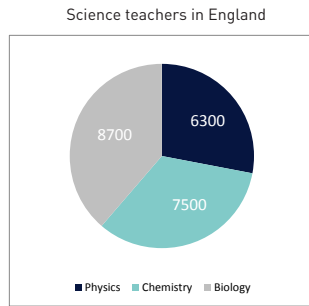


SCIENCE SHORTFALL REPORT

Science teaching in England overview

By 2030 there are predicted to be more than 7 million jobs in UK Science based industries



Biology 89%

Chemistry 95%

Physics 71%

New entrants onto post-graduate teacher training, as per government targets

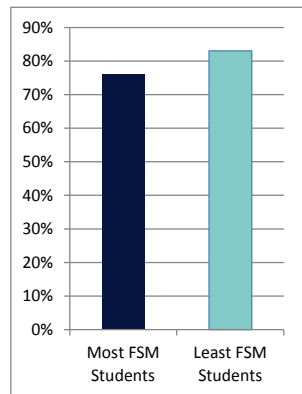
Recommendation

Further efforts need to be made to ensure that state school teachers have qualifications in the subjects they are teaching

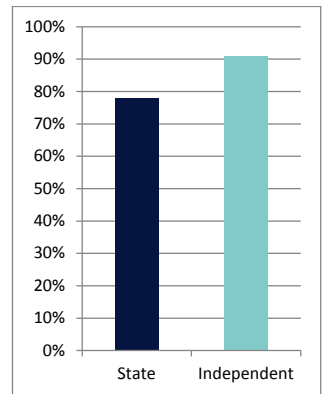
Science specialists and disadvantage

Recommendation

Incentives to address science teaching shortages should be targeted at schools in less advantaged areas



Secondary Science teachers with main teaching subject of biology, chemistry or physics and relevant qualification, by school and teacher type (NFER data)

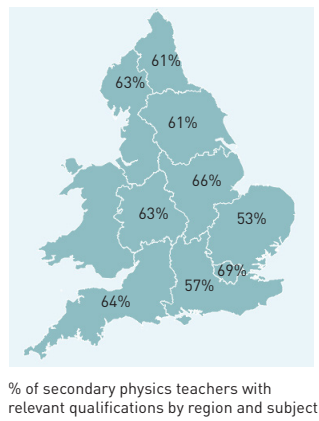


Percentage of secondary teachers with main teaching subject of biology, chemistry or physics and relevant qualification, by school type (data from NFER and ICS)

Physics Shortfall

In a post-Brexit Britain, there may be a limit to the immigration of highly qualified workers

Only 51% of Physics secondary school teachers have a relevant science degree



The government has failed to reach its physics recruitment targets for the past 5 years

Recommendation

In schools with shortages of physics teachers or none at all, local authorities or MATS should encourage teachers from other schools to offer CPD courses

What is the Sutton Trust doing?

To widen access to STEM degrees and the wide range of careers they open up, the Sutton Trust has established Pathways to STEM. The programme supports the academically able low and middle income state school students through the development of soft skills, a work placement, careers advice and a mentor.

