## The impact of changes to teachers' pay on equality in schools in England

Report on employment and earnings trends for teachers with protected characteristics between 2010 and 2014

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## Executive Summary

This report presents information on employment and earnings trend for teachers, focusing upon the comparative experience of teachers with protected characteristics. The report is based on the analysis of data from the annual DfE School Workforce Censuses for 2010 to 2014. Individual-level data has been aggregated to produce new information, not contained in published reports on the Census.

The highlights of the analysis are:

- The number of teachers in England grew by 4.7 per cent between 2010 and 2014.
- The number of teachers aged under 50 was expanding faster than average, while the number of teachers in their fifties fell by about a fifth during this period.
- There was a major shift in employment from local (education) authority-controlled schools to academies.
- Women dominate employment, being most strongly represented in the primary phase. Men are more common in secondary schools and were more likely than women to work in academies. White teachers gained employment to a greater extent than BME teachers from the growth of academies.
- Employment grew strongly for younger teachers and teachers from minority ethnic groups between 2010 and 2014. Employment grew fastest for South Asian ethnic groups. However, BME groups formed a small percentage of teachers throughout this period.
- Men were more likely than women to be in senior posts. However, there was a relatively rapid increase in employment in senior posts for people from minority ethnic groups.
- For all teachers in work, male wages were higher than female and people from most minority ethnic groups earned less than white people.
- The median earnings of all teachers declined from $£ 34,181$ to $£ 33,254$ between 2010 and 2014.
- Female wages declined relative to those of men over this period.
- Statistical models revealed a strong tendency for women to earn less than men, having taken other factors into account.
- They also reveal that younger teachers (aged 21 to 29) had significantly lower wages than men and teachers aged 41 to 49 . There was a statistically significant tendency for the earnings of 51 to 59 year olds to be higher.
- The models reveal no significant tendency for disabled teachers to earn less or more than average.
- There was a statistically significant tendency for teachers from the White-Irish, Indian and Black-Caribbean ethnic groups to earn more than White British teachers while there was a statistically significant tendency for Chinese teachers to earn less.
- Secondary school teachers tended to earn more, while working in an academy has a statistically significant negative effect on earnings.
- Those teachers who stayed in employment throughout the period 2010 to 2014 saw their earnings increase by around 10 per cent between 2010 and 2014. Gender and disability differentials increased among these teachers, but ethnic group and age differentials narrowed.


## 1 Introduction

This report provides an update to the report on Work Package 2 which presented an analysis of official statistics on employment and earnings over the period from 1998 to 2013 and an analysis of the School Workforce Census for the years 2010 to 2013.

This report extends the latter analysis using data from the Department for Education's (DfE) annual School Workforce Census (SWC) for 2010 to 2014. The analysis is based on the individual-level data from the SWC linked across all five years using the individual identifier for each teacher. The report provides new information not available from other published reports on the SWC. Most of the analysis is based on all teachers in the SWC in the year concerned, but trends in earnings for those teachers traced in all five Censuses are also presented.

The report demonstrates how employment by protected characteristics has changed over this period and contrasts earnings over this period by protected characteristic - age, gender, disability and ethnicity. In addition to considering all teachers employed in each year, the chapter presents median earnings for teachers who have remained in employment throughout this period.

## 2 The Demographic breakdown of teachers by protected characteristics, 2010-2014

This section of the report sets the context for the analysis of pay differentials by presenting the changing breakdown of the teacher workforce in England by protected characteristics (age, gender, ethnicity and disability) for the period 2010 to 2014.

Table 1: Demographic characteristics of teachers, 2010-2014

|  | 2010 | 2011 | 2012 | 2013 | 2014 | $\begin{aligned} & \hline \text { Change } \\ & 2010-14 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Female | 332515 | 329953 | 339304 | 341752 | 348142 | 15627 |
| Male | 113098 | 110372 | 112504 | 112449 | 113604 | 506 |
| Disabled | 2393 | 2324 | 2396 | 2322 | 2305 | -88 |
| Aged 21-29 | 101751 | 100288 | 105310 | 108118 | 113205 | 11454 |
| Aged 30-39 | 142540 | 144347 | 150158 | 152970 | 156618 | 14078 |
| Aged 40-49 | 107238 | 109309 | 114669 | 118188 | 121927 | 14689 |
| Aged 50-59 | 99110 | 91987 | 87656 | 83292 | 80032 | -19078 |
| Aged 60-69 | 13043 | 13162 | 13635 | 13656 | 13518 | 475 |
| All ages | 463682 | 459093 | 471428 | 476224 | 485300 | 21618 |
| White ethnic groups | 429609 | 422630 | 432087 | 432534 | 437900 | 8291 |
| White British | 407516 | 400821 | 409641 | 408607 | 412983 | 5467 |
| White Irish | 6688 | 6972 | 7449 | 7771 | 8087 | 1399 |
| Any Other White Background | 15405 | 14837 | 14997 | 16156 | 16830 | 1425 |
| Black and Minority Ethnic groups | 29264 | 29097 | 30764 | 32389 | 34281 | 5017 |
| Mixed parentage | 3729 | 3972 | 4333 | 4784 | 5146 | 1417 |
| White and Black Caribbean | 844 | 925 | 1049 | 1145 | 1283 | 439 |
| White and Black African | 424 | 456 | 483 | 505 | 515 | 91 |
| White and Asian | 1037 | 1117 | 1193 | 1294 | 1385 | 348 |
| Any Other Mixed Background | 1424 | 1474 | 1608 | 1840 | 1963 | 539 |
| South Asian ethnic groups | 13740 | 13827 | 14829 | 15606 | 16612 | 2872 |
| Indian | 6773 | 6877 | 7310 | 7560 | 7957 | 1184 |
| Pakistani | 3564 | 3546 | 3819 | 3968 | 4267 | 703 |
| Bangladeshi | 1394 | 1424 | 1547 | 1755 | 1898 | 504 |
| Any Other Asian Background | 2009 | 1980 | 2153 | 2323 | 2490 | 481 |
| Black ethnic groups | 8647 | 8308 | 8572 | 8905 | 9282 | 635 |
| Black African | 3182 | 3013 | 3073 | 3196 | 3394 | 212 |
| Black Caribbean | 4421 | 4308 | 4465 | 4493 | 4639 | 218 |
| Any Other Black Background | 1044 | 987 | 1034 | 1216 | 1249 | 205 |
| Chinese and other ethnic groups | 3148 | 2990 | 3030 | 3094 | 3241 | 93 |
| Chinese | 684 | 685 | 701 | 699 | 724 | 40 |
| Arab | 0 | 0 | 0 | 0 | 0 | 0 |
| Any Other Ethnic Group | 2464 | 2305 | 2329 | 2395 | 2517 | 53 |

Table 2: Profile of teachers, 2010-2014

|  | Percentage |  |  |  |  | $\begin{gathered} \hline \% \\ \text { change } \\ 2010-14 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2010 | 2011 | 2012 | 2013 | 2014 |  |
| Female | 71.7 | 71.9 | 72.0 | 71.8 | 71.7 | 4.7 |
| Male | 24.4 | 24.0 | 23.9 | 23.6 | 23.4 | 0.4 |
| Disabled | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | -3.7 |
| Aged 21-29 | 21.9 | 21.8 | 22.3 | 22.7 | 23.3 | 11.3 |
| Aged 30-39 | 30.7 | 31.4 | 31.9 | 32.1 | 32.3 | 9.9 |
| Aged 40-49 | 23.1 | 23.8 | 24.3 | 24.8 | 25.1 | 13.7 |
| Aged 50-59 | 21.4 | 20.0 | 18.6 | 17.5 | 16.5 | -19.2 |
| Aged 60-69 | 2.8 | 2.9 | 2.9 | 2.9 | 2.8 | 3.6 |
| All ages | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 4.7 |
| White ethnic groups | 92.7 | 92.1 | 91.7 | 90.8 | 90.2 | 1.9 |
| White British | 87.9 | 87.3 | 86.9 | 85.8 | 85.1 | 1.3 |
| White Irish | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 20.9 |
| Any Other White Background | 3.3 | 3.2 | 3.2 | 3.4 | 3.5 | 9.3 |
| Black and minority ethnic groups | 6.3 | 6.3 | 6.5 | 6.8 | 7.1 | 17.1 |
| Mixed parentage | 0.8 | 0.9 | 0.9 | 1.0 | 1.1 | 38.0 |
| White and Black Caribbean | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 52.0 |
| White and Black African | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 21.5 |
| White and Asian | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 33.6 |
| Any Other Mixed Background | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 37.9 |
| South Asian ethnic groups | 3.0 | 3.0 | 3.1 | 3.3 | 3.4 | 20.9 |
| Indian | 1.5 | 1.5 | 1.6 | 1.6 | 1.6 | 17.5 |
| Pakistani | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 19.7 |
| Bangladeshi | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 36.2 |
| Any Other Asian Background | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 23.9 |
| Black ethnic groups | 1.9 | 1.8 | 1.8 | 1.9 | 1.9 | 7.3 |
| Black African | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 6.7 |
| Black Caribbean | 1.0 | 0.9 | 0.9 | 0.9 | 1.0 | 4.9 |
| Any Other Black Background | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 19.6 |
| Chinese and other ethnic groups | 0.7 | 0.7 | 0.6 | 0.6 | 0.7 | 3.0 |
| Chinese | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 5.8 |
| Arab | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | - |
| Any Other Ethnic Group | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2.2 |

The total number of teachers (aged 21 to 69) of all types in England increased from 463.7 to 485.3 thousand between 2010 and 2014 (Table 1), an increase of 4.7 per cent. Within this overall total, there were marked differences by protected characteristic.

Gender: Women dominate the profession, accounting for 71.7 per cent of all teachers in 2014 ${ }^{1}$. The number of female teachers only grew very slightly over the period 2010 to 2014, but the number of male teachers increased by 15.6 thousand ( 4.7 per cent).

Disability: Between 2.3 and 2.4 thousand teachers were recorded as being disabled during this period, representing 0.5 per cent of all teachers. The number disabled declined by 3.7 per cent between 2010 and 2014.

Age: The number of teachers in each ten-year age group up to the age of 50 increased between 2010 and 2014, but the number of 50 to 59 year olds fell by 19.1 thousand (19.2 per cent) over this period and the number aged 60 to 69 increased slightly. The fastest rate of increase was for 40 to 49 year olds ( 13.7 per cent).

Ethnicity: There were 34.2 thousand teachers from Black and Minority Ethnic (BME) groups in 2014 ( 7.1 percent of the total). The number of BME teachers increased by 5 thousand or 17.1 per cent between 2010 and 2014 (Table 2). South Asians formed 3.4 per cent of the total and Black teachers 1.9 per cent in 2014. The number of South Asian teachers grew by 20.9 per cent between 2010 and 2014. The largest individual BME groups in 2014 were Indian, followed by Black-Caribbean and Pakistani. The fastest growing BME groups between 2010 and 2014 were teachers of mixed parentage ( 38 per cent) and the Bangladeshi ethnic group ( 36.2 per cent). White Irish teachers formed 1.7 per cent of the total (growing by 20.9 per cent between 2010 and 2014), while Other White (including white European) teachers formed 3.5 per cent of all teachers in 2014 (having grown by 9.3 per cent since 2010).

The number of teachers from individual BME groups is relatively small (Table 1), with the largest individual minority ethnic group (Indian) having only 8 thousand teachers in 2014. Therefore in the remainder of this report, the broad groupings (White, Mixed parentage, South Asian, Black and Chinese and Other) are used in many of the tables presented in the remainder of this report.

[^0]
## 3 Type of employment

### 3.1 Phase and sector of education (Tables 3 to 17)

The number of teachers in primary education increased by 21.2 thousand ( 9.7 per cent) between 2010 and 2014, while the number of secondary teachers fell by 1.9 thousand ( 0.8 per cent). The most notable feature is the shift of teachers from schools in local education authority control to academies. The number of teachers in the community sector contracted by 136.5 thousand ( 31 per cent) while the number of teachers in academies and free schools grew by 158.1 thousand ( 697.8 per cent).

Turning to gender, female teachers dominate employment in all phases and sectors (Table 3), but form seven-eighths of primary school teachers compared with around two-thirds of secondary teachers (Table 4). They form more than three-quarters of teachers in the local authority/community sector, but two-thirds of teachers in academies, free schools, etc. The number of female teachers increased faster than male teachers in academies between 2010 and 2014 and fell more slowly than males in the local authority/community sector. Therefore, the share of female teachers in the local authority/community sector increased between 2010 and 2014, as male employment contracted. On the other hand, female employment growth in academies outstripped male employment growth, resulting in their share of academy employment also increasing.

The share of disabled teachers in employment is highest for special schools, in which their employment increased between 2010 and 2014 (Table 5). They also experienced a relative shift from the local authority/community sector to academies and free schools.

The largest age group among teachers is those aged 30 to 39 in all sectors except special schools (Tables 9 and 10). The number of teachers increased between 2010 and 2014 in age groups below 50, most rapidly for 40 to 49 year olds (Table 11). There was a small increase in the number of teachers aged 60 to 69 . However, the number of $50-59$ year olds fell by nearly a fifth, most rapidly in the local authority/community sector. The decline in 5059 year olds was faster in the secondary than the primary sector and employment in the academy/free school sector grew most slowly for this age group. The share of 21-29 year olds and 50-59 year olds in the academy/free school sector declined over this period as growth in the employment of 40-49 year olds exceeded that of any other age group.

All broad ethnic groups gained employment between 2010 and 2014, with the largest increase among BME groups being for South Asians (Table 14). All ethnic groups lost employment between 2010 and 2014 in the local authority/community sector, while the number of teachers from white and Chinese and Other ethnic groups declined in the secondary phase (Tables 14 and 17). The share of white teachers in employment declined in all phases of education, but increased in the academy/free school sector (Tables 15 and 16). The rate of increase in employment in academies and free schools was also highest for white teachers. The South Asian share of employment increased in all phases of education and in local authority/community schools between 2010 and 2014, but fell in academies and free schools. The rate of employment increase was fastest for teachers of mixed parentage, for whom the rate of increase was faster in special schools and primary and nursery schools than in secondary schools. The rate of increase in employment in academies and free schools was slowest for Black teachers, whose share of employment also declined in this sector (Tables 15 and 16).

Table 3: Gender breakdown of teachers by phase and sector of education in 2010 and 2014 (numbers)

| Phase / sector | Female |  |  | Male |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2010 | 2014 | Change | 2010 | 2014 | Change |
| Phase |  |  |  |  |  |  |
| Primary and nursery | 190723 | 206818 | 16095 | 27984 | 33074 | 5090 |
| Secondary | 142185 | 144305 | 2120 | 86091 | 82035 | -4056 |
| Special | 12253 | 13965 | 1712 | 4212 | 4816 | 604 |
| Sector |  |  |  |  |  |  |
| Local Authority/Community | 331287 | 242087 | -89200 | 109532 | 62308 | -47224 |
| Academy/free etc. | 13874 | 123001 | 109127 | 8755 | 57617 | 48862 |
| Total | $\mathbf{3 4 5 1 6 1}$ | $\mathbf{3 6 5 0 8 8}$ | $\mathbf{1 9 9 2 7}$ | $\mathbf{1 1 8 2 8 7}$ | $\mathbf{1 1 9 9 2 5}$ | $\mathbf{1 6 3 8}$ |

Table 4: Gender breakdown of teachers by phase and sector of education in 2010 and 2014 (percentage shares of employment)

| Phase / sector | Female |  |  | Male |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2010 | 2014 | $\begin{array}{c}\% \\ \text { Change in } \\ \text { female }\end{array}$ | 2010 | 2014 | $\begin{array}{c}\% \\ \text { teachers } \\ \text { employed }\end{array}$ |
| chale in |  |  |  |  |  |  |
| male |  |  |  |  |  |  |
| eeachers |  |  |  |  |  |  |$]$

Note: Some teachers did not declare their gender
Table 5: Disabled teachers by phase and sector of education in 2010 and 2014

| Phase / sector | Number |  |  | Percentage share |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2010 | 2014 | Change | 2010 | 2014 | Change in <br> disabbed <br> teachers <br> employed |
| Phase |  |  |  |  |  |  |
| Primary and nursery | 984 | 934 | -50 | 0.4 | 0.4 | -5.1 |
| Secondary | 1035 | 1051 | 16 | 0.5 | 0.5 | 1.5 |
| Special | 118 | 156 | 38 | 0.7 | 0.8 | 32.2 |
| Sector |  |  |  |  |  |  |
| Local Authority/Community | 2020 | 1417 | -603 | 0.5 | 0.5 | -29.9 |
| Academy/free etc. | 117 | 724 | 607 | 0.5 | 0.4 | 518.8 |
| Total | 2137 | 2141 | 4 | 0.5 | 0.4 | 0.2 |

Table 6: Age of teachers by phase and sector of education in 2010 (numbers)

| Age group | Phase |  |  | Sector |  | All |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Primary <br> and <br> nursery | Secondary | Special | Local <br> Authority/ <br> Community | Academy <br> /free etc. |  |
| Aged 21-29 | 48728 | 51220 | 1803 | 95439 | 6312 | 101751 |
| Aged 30-39 | 66987 | 71665 | 3888 | 135337 | 7203 | 142540 |
| Aged 40-49 | 51785 | 51226 | 4227 | 102557 | 4681 | 107238 |
| Aged 50-59 | 45447 | 47908 | 5755 | 95191 | 3919 | 99110 |
| Aged 60-69 | 5853 | 6391 | 799 | 12495 | 548 | 13043 |
| All ages | 218800 | 228410 | 16472 | 441019 | 22663 | 463682 |

Table 7: Age of teachers by phase and sector of education in 2014 (numbers)

| Age group | Phase |  |  | Sector |  | All |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Primary <br> and <br> nursery | Secondary | Special | Local <br> Authority/ <br> Community | Academy <br> /free etc. |  |
| Aged 21-29 | 60513 | 49913 | 2779 | 69631 | 43574 | 113205 |
| Aged 30-39 | 74560 | 77019 | 5039 | 96480 | 60138 | 156618 |
| Aged 40-49 | 61114 | 55680 | 5133 | 78590 | 43337 | 121927 |
| Aged 50-59 | 37440 | 37769 | 4823 | 51279 | 28753 | 80032 |
| Aged 60-69 | 6344 | 6164 | 1010 | 8517 | 5001 | 13518 |
| All ages | 239971 | 226545 | 18784 | 304497 | 180803 | 485300 |

Table 8: Age of teachers by phase and sector of education: change 2010-2014

| Age group | Phase |  |  | Sector |  | All |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Primary <br> and <br> nursery | Secondary | Special | Local <br> Authority/ <br> Community | Academy <br> /free etc. |  |
| Aged 21-29 | 11785 | -1307 | 976 | -25808 | 37262 | 11454 |
| Aged 30-39 | 7573 | 5354 | 1151 | -38857 | 52935 | 14078 |
| Aged 40-49 | 9329 | 4454 | 906 | -23967 | 38656 | 14689 |
| Aged 50-59 | -8007 | -10139 | -932 | -43912 | 24834 | -19078 |
| Aged 60-69 | 491 | -227 | 211 | -3978 | 4453 | 475 |
| All ages | 21171 | -1865 | 2312 | -136522 | 158140 | 21618 |

Table 9: Age of teachers by phase and sector of education in 2010 (percentages)

| Age group | Phase |  |  | Sector |  | All |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Primary <br> and <br> nursery | Secondary | Special | Local <br> Authority/ <br> Community | Academy <br> /free etc. |  |
| Aged 21-29 | 22.3 | 22.4 | 10.9 | 21.6 | 27.9 | 21.9 |
| Aged 30-39 | 30.6 | 31.4 | 23.6 | 30.7 | 31.8 | 30.7 |
| Aged 40-49 | 23.7 | 22.4 | 25.7 | 23.3 | 20.7 | 23.1 |
| Aged 50-59 | 20.8 | 21.0 | 34.9 | 21.6 | 17.3 | 21.4 |
| Aged 60-69 | 2.7 | 2.8 | 4.9 | 2.8 | 2.4 | 2.8 |
| All ages | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

Table 10: Age of teachers by phase and sector of education in 2014 (percentages)

| Age group | Phase |  |  | Sector |  | All |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Primary <br> and <br> nursery | Secondary | Special | Local <br> Authority/ <br> Community | Academy <br> /free etc. |  |
| Aged 21-29 | 25.2 | 22.0 | 14.8 | 22.9 | 24.1 | 23.3 |
| Aged 30-39 | 31.1 | 34.0 | 26.8 | 31.7 | 33.3 | 32.3 |
| Aged 40-49 | 25.5 | 24.6 | 27.3 | 25.8 | 24.0 | 25.1 |
| Aged 50-59 | 15.6 | 16.7 | 25.7 | 16.8 | 15.9 | 16.5 |
| Aged 60-69 | 2.6 | 2.7 | 5.4 | 2.8 | 2.8 | 2.8 |
| All ages | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

Table 11: Age of teachers by phase and sector of education: percentage change 20102014

| Age group | Phase |  |  | Sector |  | All |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Primary <br> and <br> nursery | Secondary | Special | Local <br> Authority/ <br> Community | Academy <br> /free etc. |  |
| Aged 21-29 | 24.2 | -2.6 | 54.1 | -27.0 | 590.3 | 11.3 |
| Aged 30-39 | 11.3 | 7.5 | 29.6 | -28.7 | 734.9 | 9.9 |
| Aged 40-49 | 18.0 | 8.7 | 21.4 | -23.4 | 825.8 | 13.7 |
| Aged 50-59 | -17.6 | -21.2 | -16.2 | -46.1 | 633.7 | -19.2 |
| Aged 60-69 | 8.4 | -3.6 | 26.4 | -31.8 | 812.6 | 3.6 |
| All ages | 9.7 | -0.8 | 14.0 | -31.0 | 697.8 | 4.7 |

Table 12: Ethnic group of teachers by phase and sector of education in 2010 (numbers)

| Ethnic group | Phase |  |  | Sector |  | All |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Primary <br> and <br> nursery | Secondary | Special | Local <br> Authority/ <br> Community | Academy <br> /free etc. |  |
| White | 201096 | 200959 | 15291 | 398335 | 19011 | 417346 |
| Mixed | 1583 | 1929 | 107 | 3341 | 278 | 3619 |
| South Asian | 5514 | 7719 | 185 | 12504 | 914 | 13418 |
| Black | 2685 | 5516 | 209 | 7424 | 986 | 8410 |
| Other | 1042 | 1930 | 68 | 2760 | 280 | 3040 |

Table 13: Ethnic group of teachers by phase and sector of education in 2014 (numbers)

| Ethnic group | Phase |  |  | Sector |  | All |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Primary <br> and <br> nursery | Secondary | Special | Local <br> Authority/ <br> Community | Academy <br> /free etc. |  |
| White | 216641 | 194784 | 17003 | 271399 | 157029 | 428428 |
| Mixed | 2322 | 2536 | 177 | 3106 | 1929 | 5035 |
| South Asian | 6993 | 9089 | 280 | 10170 | 6192 | 16362 |
| Black | 3145 | 5528 | 364 | 5240 | 3797 | 9037 |
| Other | 1124 | 1921 | 100 | 1722 | 1423 | 3145 |

Table 14: Ethnic group of teachers by phase and sector of education: change 20102014

| Ethnic group | Phase |  |  | Sector |  | All |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Primary <br> and <br> nursery | Secondary | Special | Local <br> Authority/ <br> Community | Academy <br> /free etc. |  |
| White | 15545 | -6175 | 1712 | -126936 | 138018 | 11082 |
| Mixed | 739 | 607 | 70 | -235 | 1651 | 1416 |
| South Asian | 1479 | 1370 | 95 | -2334 | 5278 | 2944 |
| Black | 460 | 12 | 155 | -2184 | 2811 | 627 |
| Other | 82 | -9 | 32 | -1038 | 1143 | 105 |

Table 15: Ethnic group of teachers by phase and sector of education in 2010 (percentages)

| Ethnic group | Phase |  |  | Sector |  | All |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Primary <br> and <br> nursery | Secondary | Special | Local <br> Authority/ <br> Community | Academy <br> /free etc.. |  |
| White | 91.9 | 88.0 | 92.8 | 90.3 | 83.9 | 90.0 |
| Mixed | 0.7 | 0.8 | 0.6 | 0.8 | 1.2 | 0.8 |
| South Asian | 2.5 | 3.4 | 1.1 | 2.8 | 4.0 | 2.9 |
| Black | 1.2 | 2.4 | 1.3 | 1.7 | 4.4 | 1.8 |
| Other | 0.5 | 0.8 | 0.4 | 0.6 | 1.2 | 0.7 |

Table 16: Ethnic group of teachers by phase and sector of education in 2014 (percentages)

| Ethnic group | Phase |  |  | Sector |  | All |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Primary <br> and <br> nursery | Secondary | Special | Local <br> Authority/ <br> Community | Academy <br> lfree etc. |  |
| White | 90.3 | 86.0 | 90.5 | 89.1 | 86.9 | 88.3 |
| Mixed | 1.0 | 1.1 | 0.9 | 1.0 | 1.1 | 1.0 |
| South Asian | 2.9 | 4.0 | 1.5 | 3.3 | 3.4 | 3.4 |
| Black | 1.3 | 2.4 | 1.9 | 1.7 | 2.1 | 1.9 |
| Other | 0.5 | 0.8 | 0.5 | 0.6 | 0.8 | 0.6 |

Table 17: Change in ethnic group breakdown of teachers by phase and sector of education between 2010 and 2014 (percentage changes)

| Ethnic group | Phase |  |  | Sector |  | All |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Primary <br> and <br> nursery | Secondary | Special | Local <br> Authority/ <br> Community | Academy <br> /free etc. |  |
| White | 7.7 | -3.1 | 11.2 | -31.9 | 726.0 | 2.7 |
| Mixed | 46.7 | 31.5 | 65.4 | -7.0 | 593.9 | 39.1 |
| South Asian | 26.8 | 17.7 | 51.4 | -18.7 | 577.5 | 21.9 |
| Black | 17.1 | 0.2 | 74.2 | -29.4 | 285.1 | 7.5 |
| Other | 7.9 | -0.5 | 47.1 | -37.6 | 408.2 | 3.5 |

### 3.2 Employment by job grade, 2010-2014

A common feature of employment by job grade across all sections of the teacher workforce is the contraction of employment in the Advanced Teacher/Excellent Teacher/Lead Practitioner category between 2010 and 2014. This category fell by 1.9 thousand, mostly for females, which declined by 33.7 per cent (Table 18), compared to 27.6 per cent for males (Table 19). Employment grew fastest for deputy and assistant heads, with the rate of increase much faster for females than males. The number of head teachers declined, for both males and females. The number of female classroom teachers increased by 4.8 per cent, compared with 0.5 per cent for males. However, the percentage of staff in senior roles was higher for men than women in both 2010 and 2014, though the male share of senior employment fell slightly over this period.

For disabled teachers, the number of head teachers increased by 8.7 per cent, while the number of classroom teachers fell by 3.5 per cent. The number of assistant and deputy heads fell by 0.6 per cent, and the share of the disabled among deputy and assistant heads fell slightly between 2010 and 2014.

Turning to age group, the number of classroom teachers in employment increased most quickly for 21-29 year olds, while the number of classroom teachers aged $50-59$ declined by a fifth between 2010 and 2014 (Table 24). The rate of increase in the number of heads and deputy heads was fastest for 21-29 year olds and 40-49 year olds, while the number of heads and deputy heads aged 50-59 declined. The percentage share of this age group among senior staff fell markedly between 2010 and 2014 (Tables 25 and 26). However, the percentage of the age group in senior jobs was higher than for any age group, and increased from 21,7 to 22.6 per cent (Tables 27 and 28), indicating that job loss in this age group was mainly experienced by staff in more junior positions.

White teachers were the only ethnic group to lose employment in head teacher posts between 2010 and 2014 (Table 31). The number of new heads was greatest for South Asians, and the rate of increase was fastest for the Chinese and Other and South Asian ethnic groups (Table 32). There was rapid increase in the number of deputy and assistant heads in all BME groups, with the 2014 total being two-thirds higher than the 2010 total for the Mixed parentage group and around 50 per cent higher for both the South Asian and Chinese and Other groups. The increase in classroom teachers was most rapid for the Mixed parentage and South Asian ethnic groups. White teachers accounted for the great majority of employment in each grade of employment (Tables 33 and 34) and the share of senior posts in total employment was highest for the white ethnic group in both 2010 (Table 35) and 2014 (Table 36).

Table 18: Female employment by job grade, 2010-14

|  | 2010 | \% of <br> females | \% job <br> level | 2014 | \% of <br> females | \% job <br> level | Change | \% <br> change |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Head, exec head | 14026 | 3.9 | 65.2 | 14183 | 3.8 | 65.9 | 157 | 1.1 |
| Deputy, Assistant <br> head | 25826 | 7.2 | 65.7 | 30672 | 8.2 | 68.2 | 4846 | 18.8 |
| AST, ET, Lead <br> Practitioner | 4549 | 1.3 | 74.4 | 3014 | 0.8 | 72.5 | -1535 | -33.7 |
| Classroom <br> Teacher | 312468 | 87.6 | 75.8 | 326089 | 87.2 | 76.5 | 13621 | 4.4 |
| Females | 356869 | 100.0 | 74.5 | 373958 | 100.0 | 75.2 | 17089 | 4.8 |

Table 19: Male employment by job grade, 2010-14

|  | 2010 | \% of <br> males | \% job <br> level | 2014 | \% of <br> males | \% job <br> level | Change | \% <br> change |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Head, exec head | 7492 | 6.1 | 34.8 | 7306 | 6.0 | 34.0 | -186 | -2.5 |
| Deputy, Assistant <br> head | 13455 | 11.0 | 34.2 | 14311 | 11.7 | 31.8 | -432 | 6.4 |
| AST, ET, Lead <br> Practitioner | 1567 | 1.3 | 25.6 | 1135 | 0.9 | 27.3 | 450 | -27.6 |
| Classroom <br> Teacher | 99508 | 81.5 | 24.1 | 99958 | 81.5 | 23.4 | 450 | 0.5 |
| Males | 122022 | 100.0 | 25.5 | 122710 | 100.0 | 24.7 | 688 | 0.6 |

Table 20: Disabled employment by job grade, 2010-14

|  | 2010 | \% of <br> disabled | \% job <br> level | 2014 | \% of <br> disabled | $\%$ job <br> level | Change | \% <br> change |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Head, exec head | 104 | 4.3 | 0.5 | 113 | 4.9 | 0.5 | 9 | 8.7 |
| Deputy, Assistant <br> head | 154 | 6.4 | 0.4 | 153 | 6.6 | 0.3 | -1 | -0.6 |
| AST, ET, Lead <br> Practitioner | 62 | 2.6 | 1.0 | 39 | 1.7 | 0.9 | -23 | -37.1 |
| Classroom <br> Teacher | 2073 | 86.6 | 0.5 | 2000 | 86.8 | 0.5 | -73 | -3.5 |
| Disabled | 2393 | 100.0 | 0.5 | 2305 | 100.0 | 0.5 | -88 | -3.7 |

Table 21: Employment by age group and job grade, 2010

|  | Head, <br> exec <br> head | Deputy, <br> Assistant <br> head | AST, ET, <br> Lead <br> Practitioner | Classroom <br> Teacher | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| $21-29$ | 19 | 972 | 378 | 101251 | 102620 |
| $30-39$ | 2423 | 12595 | 1954 | 128235 | 145207 |
| $40-49$ | 7230 | 12497 | 1601 | 90173 | 111501 |
| $50-59$ | 10683 | 12177 | 1871 | 80630 | 105361 |
| $60-69$ | 1166 | 1051 | 313 | 11908 | 14438 |
| Total | 21521 | 39292 | 6117 | 412197 | 479127 |

Table 22: Employment by age group and job grade, 2014

|  | Head, <br> exec <br> head | Deputy, <br> Assistant <br> head | AST, ET, <br> Lead, <br> Practitioner | Classroom <br> Teacher | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| $21-29$ | 26 | 1331 | 360 | 112067 | 113784 |
| $30-39$ | 2444 | 15602 | 1172 | 139551 | 158769 |
| $40-49$ | 8744 | 16696 | 1232 | 98707 | 125379 |
| $50-59$ | 8854 | 10178 | 1133 | 64142 | 84307 |
| $60-69$ | 1441 | 1197 | 258 | 11824 | 14720 |
| Total | 21509 | 45004 | 4155 | 426291 | 496959 |

Table 23: Change in employment by age group and job grade, 2010-2014

|  | Head, <br> exec <br> head | Deputy, <br> Assistant <br> head | AST, ET, <br> Lead <br> Practitioner | Classroom <br> Teacher | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| $21-29$ | 7 | 359 | -18 | 10816 | 11164 |
| $30-39$ | 21 | 3007 | -782 | 11316 | 13562 |
| $40-49$ | 1514 | 4199 | -369 | 8534 | 13878 |
| $50-59$ | -1829 | -1999 | -738 | -16488 | -21054 |
| $60-69$ | 275 | 146 | -55 | -84 | 282 |
| Total | -12 | 5712 | -1962 | 14094 | 17832 |

Table 24: Percentage change in employment by age group and job grade, 2010-2014

|  | Head, <br> exec <br> head | Deputy, <br> Assistant <br> head | AST, ET, <br> Lead, <br> Practitioner | Classroom <br> Teacher | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| $21-29$ | 36.8 | 36.9 | -4.8 | 10.7 | 10.9 |
| $30-39$ | 0.9 | 23.9 | -40.0 | 8.8 | 9.3 |
| $40-49$ | 20.9 | 33.6 | -23.0 | 9.5 | 12.4 |
| $50-59$ | -17.1 | -16.4 | -39.4 | -20.4 | -20.0 |
| $60-69$ | 23.6 | 13.9 | -17.6 | -0.7 | 2.0 |
| Total | -0.1 | 14.5 | -32.1 | 3.4 | 3.7 |

Table 25: Percentage of age group in each job grade, 2010

|  | Head, <br> exec <br> head | Deputy, <br> Assistant <br> head | AST, ET, <br> Lead <br> Practitioner | Classroom <br> Teacher | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| $21-29$ | 0.1 | 2.5 | 6.2 | 24.6 | 21.4 |
| $30-39$ | 11.3 | 32.1 | 31.9 | 31.1 | 30.3 |
| $40-49$ | 33.6 | 31.8 | 26.2 | 21.9 | 23.3 |
| $50-59$ | 49.6 | 31.0 | 30.6 | 19.6 | 22.0 |
| $60-69$ | 5.4 | 2.7 | 5.1 | 2.9 | 3.0 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

Table 26: Percentage of age group in each job grade, 2014

|  | Head, <br> exec <br> head | Deputy, <br> Assistant <br> head | AST, ET, <br> Lead <br> Practitioner | Classroom <br> Teacher | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| $21-29$ | 0.1 | 3.0 | 8.7 | 26.3 | 22.9 |
| $30-39$ | 11.4 | 34.7 | 28.2 | 32.7 | 31.9 |
| $40-49$ | 40.7 | 37.1 | 29.7 | 23.2 | 25.2 |
| $50-59$ | 41.2 | 22.6 | 27.3 | 15.0 | 17.0 |
| $60-69$ | 6.7 | 2.7 | 6.2 | 2.8 | 3.0 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

Table 27: Percentage of job grade in each age group, 2010

|  | Head, <br> exec <br> head | Deputy, <br> Assistant <br> head | AST, ET, <br> Lead <br> Practitioner | Classroom <br> Teacher | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| $21-29$ | 0.0 | 0.9 | 0.4 | 98.7 | 100.0 |
| $30-39$ | 1.7 | 8.7 | 1.3 | 88.3 | 100.0 |
| $40-49$ | 6.5 | 11.2 | 1.4 | 80.9 | 100.0 |
| $50-59$ | 10.1 | 11.6 | 1.8 | 76.5 | 100.0 |
| $60-69$ | 8.1 | 7.3 | 2.2 | 82.5 | 100.0 |
| Total | 4.5 | 8.2 | 1.3 | 86.0 | 100.0 |

Table 28: Percentage of job grade in each age group, 2014

|  | Head, <br> exec <br> head | Deputy, <br> Assistant <br> head | AST, ET, <br> Lead <br> Practitioner | Classroom <br> Teacher | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| $21-29$ | 0.0 | 1.2 | 0.3 | 98.5 | 100.0 |
| $30-39$ | 1.5 | 9.8 | 0.7 | 87.9 | 100.0 |
| $40-49$ | 7.0 | 13.3 | 1.0 | 78.7 | 100.0 |
| $50-59$ | 10.5 | 12.1 | 1.3 | 76.1 | 100.0 |
| $60-69$ | 9.8 | 8.1 | 1.8 | 80.3 | 100.0 |
| Total | 4.3 | 9.1 | 0.8 | 85.8 | 100.0 |

Table 29: Employment by ethnic group and job grade, 2010

|  | Head, <br> exec <br> head | Deputy, <br> Assistant <br> head | AST, ET, <br> Lead, <br> Practitioner | Classroom <br> Teacher | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| White | 20435 | 36549 | 5338 | 367287 | 429609 |
| Mixed | 103 | 200 | 47 | 3379 | 3729 |
| South Asian | 197 | 657 | 188 | 12698 | 13740 |
| Black | 168 | 498 | 109 | 7872 | 8647 |
| Other | 30 | 132 | 49 | 2937 | 3148 |
| Total | 20933 | 38036 | 5731 | 394173 | 458873 |

Table 30: Employment by ethnic group and job grade, 2014

|  | Head, <br> exec <br> head | Deputy, <br> Assistant <br> head | AST, ET, <br> Lead <br> Practitioner | Classroom <br> Teacher | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| White | 20259 | 41266 | 3553 | 372822 | 437900 |
| Mixed | 120 | 335 | 46 | 4645 | 5146 |
| South Asian | 256 | 989 | 139 | 15228 | 16612 |
| Black | 190 | 673 | 88 | 8331 | 9282 |
| Other | 49 | 197 | 42 | 2953 | 3241 |
| Total | 20874 | 43460 | 3868 | 403979 | 472181 |

Table 31: Change in employment by ethnic group and job grade, 2010-2014

|  | Head, <br> exec <br> head | Deputy, <br> Assistant <br> head | AST, ET, <br> Lead, <br> Practitioner | Classroom <br> Teacher | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| White | -176 | 4717 | -1785 | 5535 | 8291 |
| Mixed | 17 | 135 | -1 | 1266 | 1417 |
| South Asian | 59 | 332 | -49 | 2530 | 2872 |
| Black | 22 | 175 | -21 | 459 | 635 |
| Other | 19 | 65 | -7 | 16 | 93 |
| Total | -59 | 5424 | -1863 | 9806 | 13308 |

Table 32: Percentage change in employment by ethnic group and job grade, 20102014

|  | Head, <br> exec <br> head | Deputy, <br> Assistant <br> head | AST, ET, <br> Lead, <br> Practitioner | Classroom <br> Teacher | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| White | -0.9 | 12.9 | -33.4 | 1.5 | 1.9 |
| Mixed | 16.5 | 67.5 | -2.1 | 37.5 | 38.0 |
| South Asian | 29.9 | 50.5 | -26.1 | 19.9 | 20.9 |
| Black | 13.1 | 35.1 | -19.3 | 5.8 | 7.3 |
| Other | 63.3 | 49.2 | -14.3 | 0.5 | 3.0 |
| Total | -0.3 | 14.3 | -32.5 | 2.5 | 2.9 |

Table 33: Percentage of ethnic group in each job grade, 2010

|  | Head, <br> exec <br> head | Deputy, <br> Assistant <br> head | AST, ET, <br> Lead <br> Practitioner | Classroom <br> Teacher | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| White | 97.6 | 96.1 | 93.1 | 93.2 | 93.6 |
| Mixed | 0.5 | 0.5 | 0.8 | 0.9 | 0.8 |
| South Asian | 0.9 | 1.7 | 3.3 | 3.2 | 3.0 |
| Black | 0.8 | 1.3 | 1.9 | 2.0 | 1.9 |
| Other | 0.1 | 0.3 | 0.9 | 0.7 | 0.7 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

Table 34: Percentage of ethnic group in each job grade, 2014

|  | Head, <br> exec <br> head | Deputy, <br> Assistant <br> head | AST, ET, <br> Lead, <br> Practitioner | Classroom <br> Teacher | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| White | 97.1 | 95.0 | 91.9 | 92.3 | 92.7 |
| Mixed | 0.6 | 0.8 | 1.2 | 1.1 | 1.1 |
| South Asian | 1.2 | 2.3 | 3.6 | 3.8 | 3.5 |
| Black | 0.9 | 1.5 | 2.3 | 2.1 | 2.0 |
| Other | 0.2 | 0.5 | 1.1 | 0.7 | 0.7 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

Table 35: Percentage of job grade in each ethnic group, 2010

|  | Head, <br> exec <br> head | Deputy, <br> Assistant <br> head | AST, ET, <br> Lead <br> Practitioner | Classroom <br> Teacher | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| White | 4.8 | 8.5 | 1.2 | 85.5 | 100.0 |
| Mixed | 2.8 | 5.4 | 1.3 | 90.6 | 100.0 |
| South Asian | 1.4 | 4.8 | 1.4 | 92.4 | 100.0 |
| Black | 1.9 | 5.8 | 1.3 | 91.0 | 100.0 |
| Other | 1.0 | 4.2 | 1.6 | 93.3 | 100.0 |
| Total | 4.6 | 8.3 | 1.2 | 85.9 | 100.0 |

Table 36: Percentage of job grade in each ethnic group, 2014

|  | Head, <br> exec <br> head | Deputy, <br> Assistant <br> head | AST, ET, <br> Lead, <br> Practitioner | Classroom <br> Teacher | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| White | 4.6 | 9.4 | 0.8 | 85.1 | 100.0 |
| Mixed | 2.3 | 6.5 | 0.9 | 90.3 | 100.0 |
| South Asian | 1.5 | 6.0 | 0.8 | 91.7 | 100.0 |
| Black | 2.0 | 7.3 | 0.9 | 89.8 | 100.0 |
| Other | 1.5 | 6.1 | 1.3 | 91.1 | 100.0 |
| Total | 4.4 | 9.2 | 0.8 | 85.6 | 100.0 |

### 3.3 Employment by pay range, 2010-2014

The most notable feature of employment change by pay range between 2010 and 2014 is the fall of 1.9 thousand ( 38.8 per cent) in the number employed in AST, Excellent Teacher and Lead Practitioners (Table 43). The number of teachers on the Unqualified Teacher pay range increased by 15.5 per cent, while the number on the Main pay range increased by 13.6 per cent between 2010 and 2014. The number on the Upper pay range declined by 2.5 per cent.

Turning first to gender, the number on the Unqualified Teacher, Main and Leadership pay ranges increased and the number on the Upper pay range decreased for both women and men. The fastest rate of increase for women was for Unqualified Teachers (Table 37), while the fastest rate of increase for men (Table 38) occurred for the Main pay range. The rate of increase in numbers on the Leadership pay range was much greater for women than for men. Men were more likely than women to be on both the Unqualified and Leadership pay ranges in both 2010 and 2014.

Disabled teachers were most likely to be on the Upper pay range in both 2010 and 2014 (Table 39), but the number on this pay range declined by 10.3 per cent. On the other hand, the percentage on the Unqualified pay range increased by nearly a third over this period.

Turning to the pattern by age group, the increase in numbers on the Unqualified Teacher and Leadership pay ranges was fastest for 21 to 29 year olds (though the number on the Upper pay scale fell in this age group). The number on the Leadership pay range increased for all age groups under 50 and over 60, but the number aged 51-59 declined by over a quarter. The percentage of teachers on the Upper and Leadership pay ranges increased in each age group up to the age of 60 in both 2010 and 2014 (Tables 44 and 45). However, the percentage of teachers on the Leadership scale aged 40-49 exceeded the percentage for 50-59 year olds in 2014.

Turning to ethnic group, the number of teachers on the Upper pay range fell for the White and Chinese and Other ethnic groups, in which the number on the Unqualified Teacher pay range also fell, but numbers in all other pay ranges except the AST, Expert Teacher and Lead Practitioner pay scale increased (Table 50). The rate of increase in the Upper pay scale was fastest for South Asians and people of Mixed parentage (Table 51). The Mixed parentage ethnic group experienced the fastest rate of increase in all other pay ranges between 2010 and 2014. The share of BME ethnic groups in the total for each pay range was highest for the Unqualified Teacher (South Asian) and Main pay ranges in both 2010 and 2014 (Tables 52 and 53). The percentage of all teachers from an ethnic group in the Upper and Leadership pay ranges was highest for the white ethnic group in both 2010 and 2014 (Tables 54 and 55). People from BME ethnic groups were more likely to be on the Main pay range.

Table 37: Female employment by pay range, 2010-2014

|  | 2010 | \% of <br> females | \% pay <br> range | 2014 | \% of <br> females | \% pay <br> range | Change | \% <br> change |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Unqualified <br> Teacher | 12630 | 3.6 | 67.1 | 14894 | 4.0 | 68.5 | 2264 | 17.9 |
| Main | 133871 | 38.1 | 77.5 | 151976 | 40.7 | 77.4 | 18105 | 13.5 |
| Upper | 159019 | 45.2 | 75.7 | 156897 | 42.1 | 76.6 | -2122 | -1.3 |
| AST, ET, Lead <br> Practitioner | 3616 | 1.0 | 71.8 | 2138 | 0.6 | 69.3 | -1478 | -40.9 |
| Leadership | 42392 | 12.1 | 65.5 | 47108 | 12.6 | 67.6 | 4716 | 11.1 |
| Total | 351528 | 100.0 | 74.6 | 373013 | 100.0 | 75.3 | 21485 | 6.1 |

Table 38: Male employment by pay range, 2010-2014

|  | 2010 | \% of <br> males | \% pay <br> range | 2014 | \% of <br> males | \% pay <br> range | Change | \% <br> change |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Unqualified <br> Teacher | 6163 | 5.1 | 32.8 | 6799 | 5.6 | 31.3 | 636 | 10.3 |
| Main | 38726 | 32.4 | 22.4 | 44109 | 36.1 | 22.5 | 5383 | 13.9 |
| Upper | 51082 | 42.7 | 24.3 | 47953 | 39.2 | 23.4 | -3129 | -6.1 |
| AST, ET, Lead <br> Practitioner | 1422 | 1.2 | 28.2 | 943 | 0.8 | 30.6 | -479 | -33.7 |
| Leadership | 22302 | 18.6 | 34.5 | 22516 | 18.4 | 32.3 | 214 | 1.0 |
| Total | 119695 | 100.0 | 25.4 | 122320 | 100.0 | 24.7 | 2625 | 2.2 |

Table 39: Disabled employment by pay range, 2010-2014

|  | 2010 | \% of <br> disabled | \% pay <br> range | 2014 | \% of <br> disabled | \% pay <br> range | Change | \% <br> change |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Unqualified Teacher | 108 | 4.6 | 0.6 | 142 | 6.2 | 0.7 | 34 | 31.5 |
| Main | 691 | 29.5 | 0.4 | 760 | 33.0 | 0.4 | 69 | 10.0 |
| Upper | 1221 | 52.1 | 0.6 | 1095 | 47.6 | 0.5 | -126 | -10.3 |
| AST, ET, Lead <br> Practitioner | 34 | 1.5 | 0.7 | 19 | 0.8 | 0.6 | -15 | -44.1 |
| Leadership | 289 | 12.3 | 0.4 | 285 | 12.4 | 0.4 | -4 | -1.4 |
| Total | 2343 | 100.0 | 0.5 | 2301 | 100.0 | 0.5 | -42 | -1.8 |

Table 40: Employment by age group and pay range, 2010

|  | Unqualified <br> Teacher | Main | Upper | AST, ET, <br> Lead <br> Practitioner | Leadership | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| $21-29$ | 6225 | 86416 | 6549 | 414 | 1374 | 100978 |
| $30-39$ | 4272 | 48070 | 72644 | 1931 | 16262 | 143179 |
| $40-49$ | 4731 | 25232 | 57991 | 1275 | 20736 | 109965 |
| $50-59$ | 2965 | 11128 | 64277 | 1266 | 23987 | 103623 |
| $60-69$ | 624 | 1892 | 8672 | 153 | 2350 | 13691 |
| Total | 18817 | 172738 | 210133 | 5039 | 64709 | 471436 |

Table 41: Employment by age group and pay range, 2014

|  | Unqualified <br> Teacher | Main | Upper | AST, ET, <br> Lead <br> Practitioner | Leadership | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| $21-29$ | 8288 | 97334 | 5792 | 265 | 1831 | 113510 |
| $30-39$ | 4749 | 56549 | 76991 | 1042 | 19168 | 158499 |
| $40-49$ | 4607 | 27621 | 65653 | 900 | 26298 | 125079 |
| $50-59$ | 3366 | 12579 | 47670 | 742 | 19645 | 84002 |
| $60-69$ | 721 | 2159 | 8793 | 136 | 2723 | 14532 |
| Total | 21731 | 196242 | 204899 | 3085 | 69665 | 495622 |

Table 42: Change in employment by age group and pay range, 2010-2014

|  | Unqualified <br> Teacher | Main | Upper | AST, ET, <br> Lead <br> Practitioner | Leadership | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| $21-29$ | 2063 | 10918 | -757 | -149 | 457 | 12532 |
| $30-39$ | 477 | 8479 | 4347 | -889 | 2906 | 15320 |
| $40-49$ | -124 | 2389 | 7662 | -375 | 5562 | 15114 |
| $50-59$ | 401 | 1451 | -16607 | -524 | -4342 | -19621 |
| $60-69$ | 97 | 267 | 121 | -17 | 373 | 841 |
| Total | 2914 | 23504 | -5234 | -1954 | 4956 | 24186 |

Table 43: Percentage change in employment by age group and pay range, 2010-2014

|  | Unqualified <br> Teacher | Main | Upper | AST, ET, <br> Lead <br> Practitioner | Leadership | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| $21-29$ | 33.1 | 12.6 | -11.6 | -36.0 | 33.3 | 12.4 |
| $30-39$ | 11.2 | 17.6 | 6.0 | -46.0 | 17.9 | 10.7 |
| $40-49$ | -2.6 | 9.5 | 13.2 | -29.4 | 26.8 | 13.7 |
| $50-59$ | 13.5 | 13.0 | -25.8 | -41.4 | -18.1 | -18.9 |
| $60-69$ | 15.5 | 14.1 | 1.4 | -11.1 | 15.9 | 6.1 |
| Total | 15.5 | 13.6 | -2.5 | -38.8 | 7.7 | 5.1 |

Table 44: Percentage of each age group in each pay range, 2010

|  | Unqualified <br> Teacher | Main | Upper | AST, ET, <br> Lead <br> Practitioner | Leadership | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| $21-29$ | 33.1 | 50.0 | 3.1 | 8.2 | 2.1 | 21.4 |
| $30-39$ | 22.7 | 27.8 | 34.6 | 38.3 | 25.1 | 30.4 |
| $40-49$ | 25.1 | 14.6 | 27.6 | 25.3 | 32.0 | 23.3 |
| $50-59$ | 15.8 | 6.4 | 30.6 | 25.1 | 37.1 | 22.0 |
| $60-69$ | 3.3 | 1.1 | 4.1 | 3.0 | 3.6 | 2.9 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

Table 45: Percentage of each age group in each pay range, 2014

|  | Unqualified <br> Teacher | Main | Upper | AST, ET, <br> Lead <br> Practitioner | Leadership | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| $21-29$ | 38.1 | 49.6 | 2.8 | 8.6 | 2.6 | 22.9 |
| $30-39$ | 21.9 | 28.8 | 37.6 | 33.8 | 27.5 | 32.0 |
| $40-49$ | 21.2 | 14.1 | 32.0 | 29.2 | 37.7 | 25.2 |
| $50-59$ | 15.5 | 6.4 | 23.3 | 24.1 | 28.2 | 16.9 |
| $60-69$ | 3.3 | 1.1 | 4.3 | 4.4 | 3.9 | 2.9 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

Table 46: Percentage of pay range in each age group, 2010

|  | Unqualified <br> Teacher | Main | Upper | AST, ET, <br> Lead <br> Practitioner | Leadership | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| $21-29$ | 6.2 | 85.6 | 6.5 | 0.4 | 1.4 | 100.0 |
| $30-39$ | 3.0 | 33.6 | 50.7 | 1.3 | 11.4 | 100.0 |
| $40-49$ | 4.3 | 22.9 | 52.7 | 1.2 | 18.9 | 100.0 |
| $50-59$ | 2.9 | 10.7 | 62.0 | 1.2 | 23.1 | 100.0 |
| $60-69$ | 4.6 | 13.8 | 63.3 | 1.1 | 17.2 | 100.0 |
| Total | 4.0 | 36.6 | 44.6 | 1.1 | 13.7 | 100.0 |

Table 47: Percentage of pay range in each age group, 2014

|  | Unqualified <br> Teacher | Main | Upper | AST, ET, <br> Lead <br> Practitioner | Leadership | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| $21-29$ | 7.3 | 85.7 | 5.1 | 0.2 | 1.6 | 100.0 |
| $30-39$ | 3.0 | 35.7 | 48.6 | 0.7 | 12.1 | 100.0 |
| $40-49$ | 3.7 | 22.1 | 52.5 | 0.7 | 21.0 | 100.0 |
| $50-59$ | 4.0 | 15.0 | 56.7 | 0.9 | 23.4 | 100.0 |
| $60-69$ | 5.0 | 14.9 | 60.5 | 0.9 | 18.7 | 100.0 |
| Total | 4.4 | 39.6 | 41.3 | 0.6 | 14.1 | 100.0 |

Table 48: Employment by ethnic group and pay range, 2010

|  | Unqualified <br> Teacher | Main | Upper | AST, ET, <br> Lead, <br> Practitioner | Leadership | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| White | 15362 | 151887 | 192309 | 4536 | 60429 | 424523 |
| Mixed | 225 | 1894 | 1168 | 41 | 334 | 3662 |
| South Asian | 754 | 7113 | 4501 | 147 | 946 | 13461 |
| Black | 625 | 3673 | 3306 | 89 | 758 | 8451 |
| Other | 356 | 1395 | 1115 | 33 | 193 | 3092 |
| Total | 17322 | 165962 | 202399 | 4846 | 62660 | 453189 |

Table 49: Employment by ethnic group and pay range, 2014

|  | Unqualified <br> Teacher | Main | Upper | AST, ET, <br> Lead <br> Practitioner | Leadership | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| White | 17447 | 167940 | 184515 | 2681 | 64368 | 436951 |
| Mixed | 392 | 2703 | 1504 | 37 | 489 | 5125 |
| South Asian | 910 | 8362 | 5818 | 114 | 1326 | 16530 |
| Black | 809 | 3987 | 3441 | 61 | 913 | 9211 |
| Other | 342 | 1491 | 1095 | 28 | 262 | 3218 |
| Total | 19900 | 184483 | 196373 | 2921 | 67358 | 471035 |

Table 50: Change in employment by ethnic group and pay range, 2010-2014

|  | Unqualified <br> Teacher | Main | Upper | AST, ET, <br> Lead <br> Practitioner | Leadership | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| White | 2085 | 16053 | -7794 | -1855 | 3939 | 12428 |
| Mixed | 167 | 809 | 336 | -4 | 155 | 1463 |
| South Asian | 156 | 1249 | 1317 | -33 | 380 | 3069 |
| Black | 184 | 314 | 135 | -28 | 155 | 760 |
| Other | -14 | 96 | -20 | -5 | 69 | 126 |
| Total | 2578 | 18521 | -6026 | -1925 | 4698 | 17846 |

Table 51: Percentage change in employment by ethnic group and pay range, 20102014

|  | Unqualified <br> Teacher | Main | Upper | AST, ET, <br> Lead <br> Practitioner | Leadership | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| White | 13.6 | 10.6 | -4.1 | -40.9 | 6.5 | 2.9 |
| Mixed | 74.2 | 42.7 | 28.8 | -9.8 | 46.4 | 40.0 |
| South Asian | 20.7 | 17.6 | 29.3 | -22.4 | 40.2 | 22.8 |
| Black | 29.4 | 8.5 | 4.1 | -31.5 | 20.4 | 9.0 |
| Other | -3.9 | 6.9 | -1.8 | -15.2 | 35.8 | 4.1 |
| Total | 14.9 | 11.2 | -3.0 | -39.7 | 7.5 | 3.9 |

Table 52: Percentage of ethnic group in each pay range, 2010

|  | Unqualified <br> Teacher | Main | Upper | AST, ET, <br> Lead <br> Practitioner | Leadership | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| White | 88.7 | 91.5 | 95.0 | 93.6 | 96.4 | 93.7 |
| Mixed | 1.3 | 1.1 | 0.6 | 0.8 | 0.5 | 0.8 |
| South Asian | 4.4 | 4.3 | 2.2 | 3.0 | 1.5 | 3.0 |
| Black | 3.6 | 2.2 | 1.6 | 1.8 | 1.2 | 1.9 |
| Other | 2.1 | 0.8 | 0.6 | 0.7 | 0.3 | 0.7 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

Table 53: Percentage of ethnic group in each pay range, 2014

|  | Unqualified <br> Teacher | Main | Upper | AST, ET, <br> Lead <br> Practitioner | Leadership | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| White | 87.7 | 91.0 | 94.0 | 91.8 | 95.6 | 92.8 |
| Mixed | 2.0 | 1.5 | 0.8 | 1.3 | 0.7 | 1.1 |
| South Asian | 4.6 | 4.5 | 3.0 | 3.9 | 2.0 | 3.5 |
| Black | 4.1 | 2.2 | 1.8 | 2.1 | 1.4 | 2.0 |
| Other | 1.7 | 0.8 | 0.6 | 1.0 | 0.4 | 0.7 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

Table 54: Percentage of pay range in each ethnic group, 2010

|  | Unqualified <br> Teacher | Main | Upper | AST, ET, <br> Lead <br> Practitioner | Leadership | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| White | 3.6 | 35.8 | 45.3 | 1.1 | 14.2 | 100.0 |
| Mixed | 6.1 | 51.7 | 31.9 | 1.1 | 9.1 | 100.0 |
| South Asian | 5.6 | 52.8 | 33.4 | 1.1 | 7.0 | 100.0 |
| Black | 7.4 | 43.5 | 39.1 | 1.1 | 9.0 | 100.0 |
| Other | 11.5 | 45.1 | 36.1 | 1.1 | 6.2 | 100.0 |
| Total | 3.8 | 36.6 | 44.7 | 1.1 | 13.8 | 100.0 |
| 2014 |  |  |  |  |  |  |

Table 55: Percentage of pay range in each ethnic group, 2014

|  | Unqualified <br> Teacher | Main | Upper | AST, ET, <br> Lead <br> Practitioner | Leadership | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| White | 4.0 | 38.4 | 42.2 | 0.6 | 14.7 | 100.0 |
| Mixed | 7.6 | 52.7 | 29.3 | 0.7 | 9.5 | 100.0 |
| South Asian | 5.5 | 50.6 | 35.2 | 0.7 | 8.0 | 100.0 |
| Black | 8.8 | 43.3 | 37.4 | 0.7 | 9.9 | 100.0 |
| Other | 10.6 | 46.3 | 34.0 | 0.9 | 8.1 | 100.0 |
| Total | 4.2 | 39.2 | 41.7 | 0.6 | 14.3 | 100.0 |

## 4 Earnings trends, 2010-2014

This section presents analysis of changes in average earnings for teachers with protected characteristics compared with all teachers. The analysis presents averages for all teachers present in the SWC in a given year.

Tables 56 to 58 present median earnings by gender, age group and ethnic group for each year from 2010 to 2014. Female earnings were highest in 2010, and male earnings were only higher than 2010 in 2013 and 2014. Earnings for disabled people were more variable, but were higher in 2014 than 2010 (Table 56).

Median earnings were lower in 2014 than 2010 for 21-29 year olds, $50-59$ year olds and those aged 60 or more (Table 57). They were higher in 2014 than 2010 for 30-39 and 40-49 year olds. The reason for this pattern is that the number of teachers aged under 30 were growing and wage progression for older teachers in this age group was masked by the entry of new teachers on the lowest salaries. In the older age groups, employment was falling (possibly involving some of the highest paid teachers), while working hours for others was being cut. Earnings for White British teachers were lower in 2014 than 2010, again influenced by the influx of younger and lower paid teachers and the loss of older, more highly paid teachers. Earnings growth was strongest in younger ethnic groups such as people of mixed parentage, Pakistanis and Bangladeshis. The earnings of White Irish, White Other, Indian and Black Caribbean teachers also stagnated over this period.

Percentage changes for the entire period and individual years within it are presented in Tables 59 to 61. This shows that earnings declined in each year for women, 21-29 year olds and White Irish people, but that there was more volatility for other groups. For example, median earnings for those aged 60 or more were stable in each year from 2010 to 2013, but then declined sharply, and the earnings growth of men is largely accounted for by an increase between 2012 and 2013.

Differentials within this rather volatile pattern can be presented more clearly by expressing median earnings for each sub-group relative to the median for all teachers (Tables 62 to 64). The differential for females widened between 2010 and 2012, but narrowed in 2013 and 2014. However, the male differential became wider throughout this period. Disabled people earned more than average and this differential was wider in 2014 than in 2010. Median earnings for White British teachers declined over this period, but were higher relative to the overall average in 2014 than in 2010, while the relative earnings of White Irish teachers declined. The relative earnings of South Asians increased over the period, but while Indian earnings were above average by 2014, those of Pakistanis and Bangladeshis were below average. Black African and Black Caribbean teacher earnings became increasingly above average over this period, but median earnings of Chinese teachers remained about 90 per cent of overall median earnings.

Table 65 focuses on earnings differentials for women relative to men. Overall, women earned about seven-eighths of what men earned and this negative differential widened slightly between 2010 and 2014. However, the differential was much closer for young women, with 21-29 year olds earning more than men in each year from 2011 to 2014 . The differential widened with increasing age, but was much smaller for teachers aged 60 or more. The gender differential was narrower for White Irish than White British women. In the Black African and Black Caribbean ethnic groups, there was little difference by gender. The largest gender differentials were in the Indian, Pakistani and Bangladeshi ethnic groups.

Table 56: Median earnings, 2010-2014 by gender and disability

|  | Median earnings (£) |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | 2010 | 2011 | 2012 | 2013 | 2014 |
| Female | 33281 | 34181 | 34571 | 35802 | 36224 |
| Male | 37982 | 38922 | 38991 | 39766 | 40782 |
| Disabled | 35218 | 35778 | 36182 | 37006 | 37298 |
| Persons | 34181 | 35447 | 35776 | 37058 | 37496 |

Table 57: Median earnings, 2010-2014 by age group

| Age group | Median earnings (£) |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | 2010 | 2011 | 2012 | 2013 | 2014 |
| $21-29$ | 23295 | 25168 | 27527 | 30244 | 32187 |
| $30-39$ | 31775 | 34181 | 34181 | 35802 | 36524 |
| $40-49$ | 36756 | 36756 | 36756 | 37915 | 38549 |
| $50-59$ | 39291 | 39291 | 39291 | 39659 | 39630 |
| $60-69$ | 39291 | 39291 | 37976 | 37124 | 36192 |
| Persons | 34181 | 35447 | 35776 | 37058 | 37496 |

Table 58: Median earnings, 2010-2014 by ethnic group

| Ethnic group | Median earnings (£) |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | 2010 | 2011 | 2012 | 2013 | 2014 |
| White British | 34181 | 35447 | 35477 | 36903 | 37456 |
| White Irish | 36716 | 37599 | 37726 | 39111 | 40083 |
| Any Other White Background | 35149 | 36387 | 36687 | 37124 | 38130 |
| White and Black Caribbean | 33556 | 35116 | 36087 | 37124 | 38355 |
| White and Black African | 33924 | 34181 | 35447 | 36751 | 37496 |
| White and Asian | 31552 | 33865 | 34181 | 35802 | 37119 |
| Any Other Mixed Background | 33464 | 35081 | 36047 | 36751 | 38014 |
| Indian | 34181 | 35447 | 36387 | 37124 | 37496 |
| Pakistani | 31552 | 32640 | 34181 | 35571 | 36592 |
| Bangladeshi | 31552 | 33865 | 35203 | 36751 | 37614 |
| Any Other Asian Background | 34181 | 35447 | 36387 | 37124 | 38355 |
| Black African | 36387 | 36756 | 37498 | 39018 | 40095 |
| Black Caribbean | 37651 | 38991 | 39305 | 40743 | 41779 |
| Any Other Black Background | 36387 | 36756 | 37599 | 39237 | 41247 |
| Chinese | 34181 | 34351 | 35226 | 36751 | 37124 |
| Any Other Ethnic Group | 35174 | 36387 | 36663 | 37598 | 38425 |
| Persons | 34181 | 35447 | 35776 | 37058 | 37496 |

Table 59: Percentage change in median earnings for 2010-14 and individual years by gender and disability

|  | Percentage change between Censuses |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | $2010-14$ | $2010-11$ | $2011-12$ | $2012-13$ | $2013-14$ |
| Female | -2.0 | 0.7 | -0.4 | -0.8 | -1.5 |
| Male | 1.0 | 0.0 | 0.0 | 1.0 | 0.0 |
| Disabled | 0.1 | 0.3 | -0.3 | 1.0 | -0.9 |
| Persons | -2.7 | 0.0 | -0.3 | -0.8 | -1.6 |

Table 60: Percentage change in median earnings for 2010-14 and individual years by age group

|  | Percentage change between Censuses |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | $2010-14$ | $2010-11$ | $2011-12$ | $2012-13$ | $2013-14$ |
| $21-29$ | -3.9 | -0.1 | -1.8 | -0.8 | -1.3 |
| $30-39$ | 1.9 | 0.0 | -0.1 | 1.0 | 1.0 |
| $40-49$ | 2.0 | 0.0 | 0.0 | 1.0 | 1.0 |
| $50-59$ | -2.7 | -0.3 | -2.2 | 0.4 | -0.6 |
| $60-69$ | -1.8 | 0.0 | 0.0 | 1.0 | -2.8 |
| Persons | -2.7 | 0.0 | -0.3 | -0.8 | -1.6 |

Table 61: Percentage change in median earnings for 2010-14 and individual years by ethnic group

|  | Percentage change between Censuses |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | $2010-14$ | $2010-11$ | $2011-12$ | $2012-13$ | $2013-14$ |
| White British | -2.3 | 0.0 | -0.2 | -0.6 | -1.5 |
| White Irish | -6.2 | -2.9 | -1.4 | -1.7 | -0.2 |
| Any Other White Background | 0.5 | 3.4 | -1.5 | 0.7 | -2.0 |
| White and Black Caribbean | -5.9 | -2.6 | 0.0 | -1.6 | -1.8 |
| White and Black African | -3.8 | -2.9 | -0.7 | -0.6 | 0.4 |
| White and Asian | 0.0 | 0.2 | 0.0 | 0.9 | -1.1 |
| Any Other Mixed Background | -1.4 | 0.1 | -0.5 | -1.8 | 0.8 |
| Indian | -1.2 | 0.7 | -0.7 | -0.1 | -1.1 |
| Pakistani | 1.0 | 2.4 | 0.0 | 1.0 | -2.4 |
| Bangladeshi | 0.3 | 1.5 | -0.2 | 0.6 | -1.6 |
| Any Other Asian Background | -1.3 | 2.0 | -0.6 | -2.9 | 0.2 |
| Black African | 2.0 | 2.4 | -1.3 | 0.9 | 0.1 |
| Black Caribbean | 1.4 | 0.0 | 0.0 | 1.0 | 0.4 |
| Any Other Black Background | 3.5 | 2.3 | -1.4 | 0.1 | 2.5 |
| Chinese | -2.9 | -2.2 | 1.5 | 0.4 | -2.6 |
| Any Other Ethnic Group | 1.0 | 0.0 | 0.0 | 0.6 | 0.3 |
| Refused | -0.5 | 1.4 | -2.9 | 1.0 | 0.1 |
| Persons | -2.7 | 0.0 | -0.3 | -0.8 | -1.6 |

Table 62: Relative median earnings, 2010-2014 by gender and disability (all teachers=100)

|  | Median earnings relative to those for all teachers (=100) |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | 2010 | 2011 | 2012 | 2013 | 2014 |
| Female | 94.4 | 94.6 | 92.6 | 94.3 | 96.8 |
| Male | 107.5 | 107.5 | 107.8 | 109.8 | 111.6 |
| Disabled | 100.0 | 100.3 | 100.3 | 102.1 | 102.9 |

Table 63: Relative median earnings, 2010-2014 by age group (all teachers=100)

| Age group | Median earnings relative to those for all teachers (=100) |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | 2010 | 2011 | 2012 | 2013 | 2014 |
| $21-29$ | 78.1 | 78.0 | 76.9 | 76.9 | 77.2 |
| $30-39$ | 100.1 | 100.1 | 100.3 | 102.1 | 104.9 |
| $40-49$ | 107.5 | 107.5 | 107.8 | 109.8 | 112.7 |
| $50-59$ | 114.1 | 113.7 | 111.5 | 112.9 | 114.0 |
| $60-69$ | 100.0 | 100.0 | 100.3 | 102.1 | 100.9 |

Table 64: Relative median earnings, 2010-2014 by ethnic group (all teachers=100)

| Ethnic group | Median earnings relative to those for all teachers (=100) |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | 2010 | 2011 | 2012 | 2013 | 2014 |
| White British | 100.0 | 100.0 | 100.1 | 100.4 | 100.5 |
| White Irish | 103.0 | 100.0 | 98.8 | 98.0 | 99.4 |
| Any Other White Background | 95.9 | 99.1 | 97.8 | 99.4 | 99.0 |
| White and Black Caribbean | 94.8 | 92.3 | 92.6 | 91.9 | 91.7 |
| White and Black African | 98.9 | 96.0 | 95.6 | 95.8 | 97.8 |
| White and Asian | 92.0 | 92.2 | 92.4 | 94.0 | 94.6 |
| Any Other Mixed Background | 95.5 | 95.6 | 95.4 | 94.5 | 96.8 |
| Indian | 99.1 | 99.7 | 99.3 | 100.1 | 100.6 |
| Pakistani | 90.1 | 92.3 | 92.6 | 94.3 | 93.6 |
| Bangladeshi | 90.9 | 92.3 | 92.4 | 93.8 | 93.8 |
| Any Other Asian Background | 98.0 | 100.0 | 99.7 | 97.6 | 99.5 |
| Black African | 102.7 | 105.2 | 104.1 | 105.9 | 107.7 |
| Black Caribbean | 107.5 | 107.5 | 107.8 | 109.8 | 112.1 |
| Any Other Black Background | 103.7 | 106.1 | 105.0 | 105.9 | 110.3 |
| Chinese | 91.5 | 89.6 | 91.2 | 92.4 | 91.4 |
| Any Other Ethnic Group | 100.0 | 100.0 | 100.3 | 101.8 | 103.8 |

Table 65: Relative earnings differentials for female teachers by age group, disability and ethnic group

|  | Female median earnings relative to male earnings |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | 2010 | 2011 | 2012 | 2013 | 2014 |
| Age group |  |  |  |  |  |
| $21-29$ | 98.9 | 101.2 | 102.4 | 102.0 | 100.0 |
| $30-39$ | 90.9 | 91.1 | 92.7 | 91.9 | 91.3 |
| $40-49$ | 86.1 | 86.5 | 86.4 | 87.1 | 86.6 |
| $50-59$ | 87.0 | 88.8 | 89.7 | 89.8 | 90.9 |
| $60-69$ | 99.3 | 96.4 | 96.7 | 94.9 | 96.7 |
|  |  |  |  |  |  |
| Disabled | 91.4 | 93.0 | 92.3 | 92.0 | 90.2 |
|  |  |  |  |  |  |
| Ethnic group |  |  |  |  |  |
| White British | 86.9 | 87.1 | 85.8 | 85.8 | 85.9 |
| White Irish | 92.9 | 90.6 | 87.4 | 88.9 | 89.9 |
| Any Other White Background | 86.8 | 87.4 | 87.6 | 87.6 | 89.0 |
| White and Black Caribbean | 93.6 | 92.0 | 96.0 | 95.8 | 94.9 |
| White and Black African | 92.7 | 89.7 | 90.5 | 94.3 | 96.3 |
| White and Asian | 87.4 | 88.0 | 87.6 | 87.7 | 85.3 |
| Any Other Mixed Background | 89.8 | 92.8 | 89.7 | 91.4 | 91.1 |
| Indian | 87.5 | 88.7 | 88.3 | 86.6 | 86.9 |
| Pakistani | 86.2 | 88.0 | 87.4 | 84.9 | 85.0 |
| Bangladeshi | 88.2 | 88.6 | 82.2 | 85.1 | 83.7 |
| Any Other Asian Background | 92.7 | 95.5 | 94.7 | 89.9 | 89.9 |
| Black African | 102.8 | 102.7 | 101.0 | 100.0 | 98.8 |
| Black Caribbean | 101.0 | 100.1 | 100.0 | 100.0 | 100.8 |
| Any Other Black Background | 100.7 | 98.9 | 99.2 | 97.1 | 97.4 |
| Chinese | 95.0 | 91.5 | 88.2 | 86.1 | 85.0 |
| Any Other Ethnic Group | 89.5 | 89.7 | 89.4 | 87.2 | 86.7 |
|  |  |  |  |  |  |
| All females | $\mathbf{8 7 . 8}$ | $\mathbf{8 7 . 9}$ | $\mathbf{8 5 . 8}$ | $\mathbf{8 5 . 8}$ | $\mathbf{8 6 . 7}$ |

Figure 1 and 2 depict median earnings for women and men by age group over the period 2010 to 2014. These diagrams demonstrate the narrowing in earnings differentials by age for both genders as earnings of younger teachers decreased while those of older teachers declined. Figure 3 clearly shows that the narrowing of the wage gap during this period was a feature of older age groups, while the gap between male and female earnings widened among younger teachers.

Figure 4 shows that there was a narrowing in earnings differentials relative to the White British group for teachers from minority ethnic groups between 2010 and 2014.

Figures 5 to 8 provide more detail on earnings for the protected characteristics considered in this report by presenting the number of teachers in each $£ 2500$ salary range from $£ 0$ to $£ 79,999$ by gender (Figure 5), disability (Figure 6), age group (Figure 7) and broad ethnic group (Figure 8) in 2014. Two marked peaks appear, at £20-22.5 thousand and £35-37.5 thousand pounds (with a smaller peak at £27.5-29.99 thousand pounds). Female teachers dominate in lower pay ranges, but the largest share of male teachers is found for the larger peak and nearby pay bands. Men are more prominent in the mid to high pay bands. The distribution of pay for disabled teachers is similar to the average. Younger teachers are better represented in lower pay levels (with a strong peak in the £20-22.49 thousand pay band). A clear relationship demonstrated between increasing pay and increasing age. The most notable feature of the distribution of earnings by ethnic group is the greater representation of Black ethnic groups in the middle and upper levels of the pay distribution.

Figures 9 to 20 present change in the distribution of earnings between 2010 and 2014 by gender (Figure 9), disability (Figure 10), age group (Figures 11 to 15) and ethnic group (Figures 16 to 20). The patterns are quite complex, but increasing representation of younger groups at the lower end of the distribution is apparent. Earnings progression at the upper end of the distribution is apparent for 40 to 49 year olds, while the older age groups experience a reduction in number of teachers in the middle part of the earnings distribution, but increases in both the upper and lower ends.

Figure 1: Female median earnings by age group, 2010-2014


Figure 2: Male median earnings by age group, 2010-2014


Figure 3: Female earnings relative to male by age group, 2010-2014


Figure 4: Earnings by ethnic group relative to White British teachers, 2010-2014


Figure 5: Earnings distribution by gender, 2014


Figure 6: Earnings distribution of disabled teachers, 2014


Figure 7: Earnings distribution by age group, 2014


Figure 8: Earnings distribution by ethnic group, 2014


Figure 9: Change in distribution of earnings by gender, 2010-2014


Figure 10: Change in distribution of disabled teacher earnings, 2010-2014


Figure11: Change in distribution of age group 21-29 earnings, 2010-2014


Figure 12: Change in distribution of age group 30-39 earnings, 2010-2014


Figure 13: Change in distribution of age group 40-49 earnings, 2010-2014


Figure 14: Change in distribution of age group 50-59 earnings, 2010-2014


Figure 15: Change in distribution of age group 60-69 earnings, 2010-2014


Figure 16: Change in distribution of White earnings, 2010-2014


Figure 17: Change in distribution of mixed parentage earnings, 2010-2014

Figure 18: Change in distribution of South Asian earnings, 2010-2014


Figure 19: Change in distribution of Black earnings, 2010-2014


Figure 20: Change in distribution of Chinese and Other earnings, 2010-2014


### 4.1 Earnings trends for teachers who were in work throughout the period 2010-2014

An alternative perspective on earnings change is provided by examining the earnings of the subset of teachers who appear in each of the School Workforce Censuses from 2010 onwards. This is possible because DfE statisticians have produced a dataset which links teachers across years of the Census using a unique teacher identifier.

The mean earnings of these teachers was 9.5 per cent higher in 2014 than in 2010. The earnings of men grew more quickly than those of women, which meant that the earnings differential of men relative to women increased slightly (Table 66). The increase in earnings for disabled teachers was slower than average, which meant that their differential relative to all teachers increased.

Table 66: Earnings trends by gender and disability for teachers in each Census, 20102014

|  | Mean earnings (£) |  | Change <br> $2010-$ <br> 2014 | Percentage <br> change | Relative to all <br> teachers |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2010 | 2014 |  | 2010 | 2014 |  |
| Female | 33046 | 36058 | 3012 | 9.1 | 95.6 | 95.3 |
| Male | 39172 | 43325 | 4153 | 10.6 | 113.4 | 114.4 |
| Female as a percentage of <br> male earnings | 84.3 | 83.2 |  |  |  |  |
| Disabled | 34855 | 37188 | 2333 | 6.7 | 100.9 | 98.2 |
| Persons | $\mathbf{3 4 5 5 7}$ | $\mathbf{3 7 8 5 5}$ | $\mathbf{3 2 9 8}$ | $\mathbf{9 . 5}$ | $\mathbf{1 0 0 . 0}$ | $\mathbf{1 0 0 . 0}$ |

The rate of change in earnings was fastest for the youngest age group, but was slower in each successively older age group (Table 67). The earnings of teachers aged over 60 was 11.1 per cent lower in 2014 than in 2010. This may have been because older teachers remaining in employment were accepting shorter hours of work. This effect might also be felt by teachers in the next younger age group (aged 51 to 59), whose relative earnings deteriorated over this period. Differentials in earnings narrowed over this period as the teachers who remained in the Census aged. Those aged over 60 in 2014 would have been in the highest earning age group in 2010, which accounts for their high pay relative to all teachers in 2010.

Table 67: Earnings trends by age group for teachers in each Census, 2010-2014

| Age group in 2014 | Mean earnings (£) |  | Change <br> $2010-$ <br> 2014 | Percentage <br> change | Relative to all <br> teachers |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2010 | 2014 |  |  | 2014 |  |
| $21-29$ | 24201 | 32455 | 8254 | 34.1 | 70.0 | 85.7 |
| $30-39$ | 32207 | 35823 | 3616 | 11.2 | 93.2 | 94.6 |
| $40-49$ | 35987 | 39610 | 3623 | 10.1 | 104.1 | 104.6 |
| $50-59$ | 39863 | 41330 | 1467 | 3.7 | 115.4 | 109.2 |
| $60-69$ | 40232 | 35777 | -4455 | -11.1 | 116.4 | 94.5 |
| All ages | $\mathbf{3 4 5 5 7}$ | $\mathbf{3 7 8 5 5}$ | $\mathbf{3 2 9 8}$ | $\mathbf{9 . 5}$ | $\mathbf{1 0 0 . 0}$ | $\mathbf{1 0 0 . 0}$ |

The highest rates of earnings increase by ethnic group were experienced by those of "any other Black background", mixed parentage and those from the Pakistani and Bangladeshi ethnic groups (Table 68). A strong influence on this will be their relative youth. Those from the White British and "Refused" categories were the only teachers experienced a slower than average increase in median earnings and hence a deterioration in their relative earnings over this period. With a higher representation of older teachers in white ethnic
groups, the lower earnings growth of older teachers would be a powerful influence, since White Irish and White Other teachers experienced a higher than average rate of earnings growth.

Table 68: Earnings trends by ethnic group for teachers in each Census, 2010-2014

| Ethnic group | Mean earnings (£) |  | Change <br> $2010-$ <br> 2014 | Percentage <br> change | Relative to all <br> teachers |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2010 | 2014 |  | 2010 | 2014 |  |
| White British | 34420 | 37585 | 3165 | 9.2 | 99.6 | 99.3 |
| White Irish | 38257 | 42391 | 4134 | 10.8 | 110.7 | 112.0 |
| Any Other White <br> Background | 35033 | 38511 | 3478 | 9.9 | 101.4 | 101.7 |
| Mixed parentage | 34029 | 38717 | 4688 | 13.8 | 98.5 | 102.3 |
| Indian | 34904 | 38745 | 3841 | 11.0 | 101.0 | 102.4 |
| Pakistani | 32444 | 36683 | 4239 | 13.1 | 93.9 | 96.9 |
| Bangladeshi | 33710 | 38095 | 4385 | 13.0 | 97.5 | 100.6 |
| Any Other Asian <br> Background | 35267 | 39018 | 3751 | 10.6 | 102.1 | 103.1 |
| Black African | 37236 | 41570 | 4334 | 11.6 | 107.8 | 109.8 |
| Black Caribbean | 39081 | 43525 | 4444 | 11.4 | 113.1 | 115.0 |
| Any Other Black <br> Background | 37420 | 43764 | 6344 | 17.0 | 108.3 | 115.6 |
| Chinese | 33299 | 36672 | 3373 | 10.1 | 96.4 | 96.9 |
| Any Other Ethnic Group | 35431 | 39367 | 3936 | 11.1 | 102.5 | 104.0 |
| All teachers | 34557 | 37855 | 3298 | 9.5 | 100.0 | 100.0 |

## 5 Explaining earnings differentials

This far, tables of means and medians for the protected characteristics being considered have been presented. However, individual teachers have a range of characteristics (i.e., they may be younger, male and from a BME ethnic group) which can combine to influence their pay differentials. Furthermore, there are other factors (such as the phase of school and organisation which might affect their pay).

In order to investigate the influence of all protected characteristics and type of school upon pay for an individual, multiple regression models were fitted to the data for all teachers for each year from 2010 to 2014. The model estimates the independent influence upon wages of a set of explanatory variables, and tests the statistical significance of the effect for each variable. The logarithm of earnings was used as the 'dependent' variable, because transforming wages using logarithms made the distribution of earnings much closer to the 'normal' distribution assumed by the regression technique. Table X presents the "beta coefficient" (the percentage change in wages for a 1 per cent change in the independent variable, holding the effect of all other variables constant) and the T-statistic (the larger the value of the statistic the more significant the effect, with T-values greater than 2 or -2 indicating there is a 95 per cent or greater chance that this is a real effect - i.e. has not occurred due to chance) associated with each explanatory variable. The larger the beta coefficient is, the stronger its influence upon wage levels.

Not all the values of the protected characteristics explored in the report are represented in the table of results. This is because the model is comparing the effect of particular aspects of each characteristic against a 'baseline' characteristic. Thus, in the case of gender, the explanatory variable is being female. For age, younger and older age groups are compared against the 40-49 year old age group. For ethnicity, minority White and BME groups are compared against White British people. Disabled people are compared with non-disabled people.

Most of the explanatory variables in the model have statistically significant influences on the wage level (Table 69). Those which do not are highlighted in italics. The "adjusted R square" value indicates how well the model represents the data. It shows that the model explains around 6 to 7 per cent of the variation in the data. This shows that there are other variables not taken account of which influence earnings levels. However, adjusted R-square values tend to be relatively low for "cross-sectional" data of the type being modelled (i.e. data for a set of individuals for a single time period) and tend to be low for large data sets, because of the amount of random 'noise' in the data.

The models reveal that:

- The most important influence on wage level is being young. The size of the beta coefficient is largest for people aged 21 to 29 in each year. It is negative, indicating that this age group has lower wages, after controlling for the effect of other characteristics.
- Being female is a powerful influence depressing wage level in each year. It has the second largest beta coefficient for each year, indicating it is the most important influence on wage levels.
- Being aged 31 to 39 or over 60 led to slightly lower wages relative to the comparison age group (41 to 49).
- Being aged 51 to 59 increased wages relative to the comparison age group.
- Teachers in secondary schools had higher earnings relative to other phases of education in each year.
- Being employed in an academy had a weak positive effect on earnings in 2010, but in subsequent years the effect is weakly negative.
- The effect of ethnicity on wages was generally weaker than phase or sector of education.
- Being White Irish slightly increased the wage level.
- Being from a White Other ethnic group (e.g. White Europeans) had a slightly negative effect on wages.
- The strongest positive coefficients were for the Black-Caribbean and Indian ethnic groups.
- There was a weak negative effect for Chinese teachers in each year.
- There is no statistically significant difference in wages for teachers from the Pakistani or "Other" ethnic group (with the exception of the weak negative effect for the latter in 2010).
- For all other BME groups, the beta coefficient was positive, but very small.
- Disability has no statistically significant influence on wages, independent of other variables in any of the years.

The conclusion of the regression analysis is that women and younger teachers have lower earnings, after the effect of other characteristics are controlled for. There is no discernable earnings penalty for disabled people. White Irish, Indian and Black-Caribbean teachers have slightly higher earnings and White Other and Chinese teachers slightly lower earnings, having controlled for other characteristics.

Table 69: Beta coefficients and T-statistics from regression models of log wages for each year

| Explanatory variable | 2010 |  | 2011 |  | 2012 |  | 2013 |  | 2014 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Beta | Tstatistic | Beta | Tstatistic | Beta | Tstatistic | Beta | Tstatistic | Beta | Tstatistic |
| Female | -0.118 | -80.20 | -0.116 | -79.76 | -0.109 | -75.35 | -0.109 | -75.69 | -0.114 | -80.20 |
| Disabled | 0.000 | -0.31 | -0.001 | -0.69 | -0.002 | -1.30 | 0.000 | 0.11 | -0.002 | -1.51 |
| Secondary school | 0.082 | 54.61 | 0.091 | 56.50 | 0.076 | 45.71 | 0.081 | 49.23 | 0.076 | 47.19 |
| Academy | 0.013 | 8.85 | -0.011 | -7.13 | -0.019 | -11.87 | -0.022 | -13.93 | -0.005 | -3.40 |
| White Irish | 0.024 | 16.75 | 0.022 | 16.01 | 0.022 | 15.65 | 0.020 | 14.49 | 0.022 | 15.68 |
| White Other | -0.009 | -6.14 | -0.008 | -5.40 | -0.007 | -5.04 | -0.006 | -4.10 | -0.009 | -6.45 |
| Mixed parentage | 0.006 | 4.57 | 0.005 | 3.23 | 0.005 | 3.74 | 0.003 | 2.41 | 0.005 | 3.72 |
| Indian | 0.011 | 7.55 | 0.011 | 7.66 | 0.012 | 8.26 | 0.010 | 7.01 | 0.012 | 8.77 |
| Pakistani | -0.004 | -2.59 | -0.002 | -1.08 | -0.001 | -0.37 | 0.000 | 0.27 | -0.002 | -1.72 |
| Bangladeshi | 0.004 | 2.82 | 0.006 | 4.06 | 0.006 | 4.22 | 0.004 | 2.81 | 0.007 | 5.29 |
| Other Asian | 0.005 | 3.47 | 0.006 | 4.05 | 0.006 | 4.18 | 0.004 | 3.16 | 0.005 | 3.40 |
| Black African | 0.007 | 4.92 | 0.009 | 6.25 | 0.010 | 7.02 | 0.009 | 6.16 | 0.010 | 7.06 |
| Black Caribbean | 0.025 | 17.57 | 0.025 | 17.69 | 0.025 | 17.68 | 0.023 | 16.49 | 0.024 | 17.50 |
| Black Other | 0.006 | 4.18 | 0.008 | 5.80 | 0.007 | 5.19 | 0.007 | 5.09 | 0.010 | 7.48 |
| Chinese | -0.008 | -5.70 | -0.009 | -6.22 | -0.006 | -4.01 | -0.007 | -4.68 | -0.010 | -7.50 |
| Other ethnic group | -0.004 | -2.65 | -0.002 | -1.50 | -0.002 | -1.35 | -0.002 | -1.79 | 0.000 | -0.24 |
| Aged 21-29 | -0.154 | -88.91 | -0.173 | -100.59 | -0.176 | -103.84 | -0.173 | -102.83 | -0.200 | -120.51 |
| Aged 31-39 | -0.027 | -15.25 | -0.040 | -22.41 | -0.043 | -24.37 | -0.039 | -22.54 | -0.050 | -29.15 |
| Aged 51-59 | 0.085 | 49.11 | 0.070 | 41.27 | 0.058 | 34.92 | 0.052 | 31.76 | 0.050 | 31.14 |
| Aged 61-69 | -0.070 | -47.87 | -0.090 | -61.61 | -0.085 | -58.24 | -0.060 | -41.42 | -0.060 | -42.01 |
| Adjusted R-square | . 070 |  | . 074 |  | . 065 |  | . 061 |  | . 071 |  |
| Standard error | . 217 |  | . 213 |  | . 226 |  | . 226 |  | . 210 |  |

## 6 Conclusion

This report provides an update to the quantitative analysis presented in the report for Work Package 2. It updates the analysis of the School Workforce Census using linked data for 2010 to 2014. The analysis revealed that gender is the most significant element of disadvantage, with women still being less well represented than men in senior posts.

The other main factor underlying disadvantage is age. Younger teachers tend to be paid less than average and are less likely to be employed in senior posts. Older teachers are more likely to have higher pay and to be employed in senior posts. However, job loss has been greatest for older teachers. Employment growth has been fastest for younger teachers.

Differentials in earnings by age and ethnic group have narrowed over the period analysed. However, there has been deterioration in the relative circumstances of women. The disadvantage of disabled teachers is relatively small and there is little evidence of it worsening between 2010 and 2014. The growth of academies and free schools may have had an influence in maintaining gender differentials in type of job and pay, since men have been more likely than average to work in this sector, especially in the early years. However, there is some evidence that earnings are lower in academies and free schools than in other sectors.


[^0]:    Gender was not recorded or refused for 23.6 thousand ( 4.9 per cent) teachers in 2014. Ethnicity was not recorded or refused for 13.1 thousand teachers ( 2.1 per cent).

