



Department  
for Education

# **Key stage 4 shadow measures**

**March 2017**

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## Background

Pupils in the 2016-17 academic year will be the first to sit the reformed GCSEs.

New GCSEs, graded on a new 9-1 scale rather than A\*-G will be phased in from 2017. In summer 2017, pupils will sit a mix of new and legacy GCSEs. To ensure that the achievements in reformed and legacy GCSEs are reflected fairly during this transitional period, we have converted point scores for legacy GCSEs to meet the new 9-1 system.

This means that schools' Attainment 8 points are likely to look different in 2017, as a result of changes to the methodology. For example, a school with a cohort of pupils in 2017 with similar performance to their 2016 cohort may receive a different Attainment 8 score.

More information on the changes can be found in Annex A of the [Progress 8 and Attainment 8](#) guidance.

Ahead of these changes, 2015-16 results have been mapped onto the 2017 point score scale (with 8.5 being the maximum points available as the new English and mathematics GCSEs only become available in 2017). Table 1 shows the new point score scales for unreformed GCSEs.

**Table 1: New point score scales for unreformed GCSEs**

<b>GCSE grade</b>	<b>2016 Points</b>	<b>2017 and 2018 Points</b>
G	1.00	1.00
F	2.00	1.50
E	3.00	2.00
D	4.00	3.00
C	5.00	4.00
B	6.00	5.50
A	7.00	7.00
A*	8.00	8.50

These shadow measures have been provided to schools to help them to visualise how their key stage 4 results may look using the 2017 point score methodology. While the school-level shadow measures will not be made publically available, we are publishing national 2015-16 Attainment 8 measures matched to 2017 point scores.

## Methodology

For the purposes of calculating Progress 8 and Attainment 8, GCSE grades are currently attributed a point score using an 8-1 scale. However, in 2017 and 2018, a combination of legacy (8-point grading scale) and reformed GCSEs (9-point grading scale) will count in performance tables. To ensure that the achievements in reformed and legacy GCSEs are reflected fairly during this transitional period, we have converted point scores for legacy GCSEs to meet the new 9-1 system.

From 2017, point scores for legacy GCSEs are being mapped onto the 1-9 scale with 8.5 being the maximum points available for legacy GCSEs.

As reformed GCSEs were not available in the academic year 2015-16, the highest grade possible for all subjects is 8.5 using the 2016 data. This is because whilst pupils will be sitting reformed GCSEs on a 9-1 scale, it is not possible to reflect this in the point scores for the shadow data as the pupils the data is based on sat unreformed qualifications. Additionally, it is not possible to estimate what proportion would obtain a higher grade in the reformed GCSEs and we cannot identify which pupils would have got a grade 9. It should also be noted that this data will not reflect behaviour changes related to those sitting the reformed qualifications.

This data is based on data published on 19 January 2017 in the [Revised GCSE and equivalent results in England 2015 to 2016](#).

## National Attainment 8 measure

**Table 2: Average Attainment 8 scores per pupil, 2015-16 results and 2015-16 results matched to 2017 point scores**

	2015-16 results		2015-16 results matched to 2017 point scores	
	National (all schools)	National (state-funded sector)	National (all schools)	National (state-funded sector)
Average Attainment 8 score per pupil	48.5	49.9	43.6	44.6
Average Attainment 8 score per pupil in English	10.1	10.5	9.1	9.4
Average Attainment 8 score per pupil in maths	9.3	9.8	8.3	8.7
Average Attainment 8 score per pupil in the English Baccalaureate element	13.6	13.8	12.2	12.2
Average Attainment 8 score per pupil in the Open element	15.4	15.8	14	14.3
<i>Open element – GCSE only</i>	12.7	12.9	11.4	11.6
<i>Open element – Non-GCSE only</i>	2.8	2.9	2.6	2.8

### Notes

1. National (all schools) includes all pupils from state-funded schools, independent schools, independent special schools, non-maintained special schools, hospital schools and alternative provision (including pupil referral units, AP free schools and AP academies as well as state-funded AP placements in other institutions).
2. National (state-funded sector) includes pupils from all state-funded mainstream and state-funded special schools only.

The estimated Attainment 8 score is the average Attainment 8 score of all pupils nationally in the same key stage 2 prior attainment fine level band. Table 3 shows the Attainment 8 estimates for each key stage 2 fine level, based on the 2016 cohort averages mapped to 2017 point scores. This has been provided to help schools understand how the implementation of the 2017 point score system might impact pupils from each prior attainment band.

For more information on how these estimates are calculated, and to see the the original Attainment 8 and Attainment 8 element estimates for each key stage 2 fine level band for 2015-16, please see the [Progress 8 and Attainment 8: key figures 2016](#) document.

**Table 3: 2015-16 Attainment 8 and Attainment 8 element estimates for each key stage 2 fine level band matched to 2017 point scores (all schools)**

<b>Key stage 2 fine level</b>	<b>Attainment 8 estimate</b>	<b>English estimate</b>	<b>Maths estimate</b>	<b>Ebacc estimate</b>	<b>Open estimate</b>
1.5	11.49	2.70	1.47	2.21	5.10
2.0	15.82	3.74	2.24	3.18	6.65
2.5	16.61	4.16	2.20	3.17	7.09
2.8	17.37	4.42	2.37	3.21	7.37
2.9	19.00	4.72	2.71	3.64	7.93
3.0	19.65	4.82	2.95	3.97	7.92
3.1	20.48	5.02	3.12	4.08	8.27
3.2	21.42	5.18	3.34	4.32	8.58
3.3	22.79	5.49	3.67	4.73	8.89
3.4	23.48	5.63	3.91	4.93	9.01
3.5	24.64	5.83	4.18	5.26	9.37
3.6	26.00	6.14	4.45	5.66	9.74
3.7	27.25	6.38	4.74	6.02	10.11
3.8	28.60	6.59	5.11	6.48	10.41
3.9	30.37	6.92	5.49	7.05	10.91
4.0	31.70	7.15	5.84	7.51	11.20
4.1	33.19	7.41	6.19	7.98	11.60
4.2	34.90	7.73	6.55	8.59	12.04
4.3	36.73	8.06	6.95	9.24	12.49
4.4	38.61	8.38	7.36	9.93	12.95
4.5	40.47	8.73	7.76	10.56	13.42
4.6	42.85	9.17	8.22	11.43	14.03
4.7	45.16	9.61	8.69	12.22	14.64
4.8	47.68	10.10	9.21	13.12	15.25
4.9	50.19	10.53	9.78	14.03	15.85
5.0	52.66	10.95	10.40	14.87	16.44
5.1	55.71	11.48	11.09	15.95	17.20
5.2	58.63	11.97	11.79	16.97	17.90
5.3	61.67	12.43	12.58	18.03	18.63
5.4	65.10	13.05	13.35	19.20	19.49
5.5	68.45	13.70	14.03	20.36	20.36
5.6	72.37	14.40	14.86	21.66	21.44
5.7	75.87	15.09	15.51	22.78	22.49
5.8	79.18	15.79	16.06	23.81	23.53

- pupils with mean key stage 2 fine grade score of  $\leq 1.5$  are assigned a key stage 2 score of 1.5
- pupils with mean key stage 2 fine grade score between 1.6 and 2.0 are assigned a key stage 2 score of 2.0
- pupils with mean key stage 2 fine grade score between 2.1 and 2.5 are assigned a key stage 2 score of 2.5

- pupils with mean key stage 2 fine grade score between 2.6 and 2.8 are assigned a key stage 2 score of 2.8
- pupils with mean key stage 2 fine grade score of  $\geq 5.8$  are assigned a key stage 2 score of 5.8

## Interpreting the data

The data has been produced to give a first impression of how Attainment 8 and Progress 8 scores will look using 2017 point scores, it **cannot** and **should not** be used to predict 2017 results.

The data takes pupils results from 2016 and directly matches them to the points that they would have been allocated, if the same pupil took exactly the same subjects and achieved the same marks in 2017. This, therefore, is historic data and cannot be used to predict what the new pupils, who will most likely be taking a different combination of qualifications, will achieve in 2017. The highest grade awarded in the shadow data in English and maths is 8.5, from 2017 it will be possible for students to achieve a grade 9 in reformed qualifications.



## Useful information and contacts

Progress 8 and Attainment 8 guidance:

[Progress-8-school-performance-measure](#)

Approved qualifications and discount codes:

[2018-performance-tables-discount-codes](#)

Get the facts: GCSE reform:

[Get-the-facts-GCSE-and-A-level-reform](#)

Any queries should be directed to [www.education.gov.uk/help/contactus/df](http://www.education.gov.uk/help/contactus/df).



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