



Department
for Education

Progress 8 and attainment 8: key figures 2016

September 2016

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Summary

This document sets out the key figures relating to Progress 8 and Attainment 8 in 2016.

For full explanations and more information please see the [Progress 8 and Attainment 8](#) guidance.

The figures presented here relate only to the cohort of pupils who finished key stage 4 in 2016 and are based on provisional data released in the 2016 checking exercise on 26th September 2016.

These figures will change between key stage 4 cohorts and between provisional and amended attainment data.

Expiry or review date

Amended Progress 8 and Attainment 8 key figures will next be updated in January 2017, based on amended data following the September checking exercise.

Who is this advice for?

This guidance is for:

- Local authorities, school leaders, school staff and governing bodies in all state funded secondary schools and further education colleges with 14 to 16 provision

Guidance

2016 Attainment 8 estimates

- The estimated Attainment 8 score is the average Attainment 8 score of all pupils nationally in the same key stage 2 (KS2) prior attainment fine level band. The table on page 7 shows the Attainment 8 estimates for each key stage 2 average fine level, based on the 2016 cohort averages.

2016 element breakdown attainment estimates

Estimated attainment scores in the separate elements of Progress 8 have been produced. The national attainment estimates have been calculated as follows:

- English: national average score in English slot for all eligible pupils in the same key stage 2 fine level band
- maths: national average score in maths slot for all eligible pupils in the same key stage 2 fine level band
- EBacc: national average sum of score in the 3 EBacc slots for all eligible pupils in the same key stage 2 fine level band
- open: national average sum of score in the 3 open slots for all eligible pupils in the same key stage 2 fine level band
- average number of EBacc slots filled for all eligible pupils in the same key stage 2 fine level band
- average number of open slots filled for all eligible pupils in the same key stage 2 fine level band

Worked example

A pupil achieves a fine level of 4.3 at key stage 2 and goes on to achieve an English score (double weighted) of 10 points in Progress 8. The average double weighted English score of all pupils nationally who also achieved a fine level of 4.3 at key stage 4 is 9.68.

The progress score in English for this pupil is therefore calculated as their actual key stage 4 score in English minus their estimated score divided by 2 to account for the double weighting. That is, $(10.00 - 9.68) / 2 = 0.16$.

2011 key stage 2 level thresholds

Level thresholds from 2011 are used in calculating prior attainment and fine levels for pupils finishing key stage 4 in 2016.

English overall		Maths	
Level	Mark range	Level	Mark range
N	0-19	N	0-13
2	20-22	2	14-16
3	23-40	3	17-44
4	41-69	4	45-76
5	70-100	5	77-100

Table 1: 2011 key stage 2 level thresholds in English and maths

Source: [Qualifications and Curriculum Development Agency](#)

See [Progress 8 and Attainment 8](#) guidance for an explanation of how to convert test marks to fine points using the above levels and thresholds.

2016 Attainment 8 estimates and Attainment 8 element estimate for each key stage 2 fine level band

Key stage 2 fine level	Attainment 8 estimate	English estimate	Maths estimate	EBacc estimate	Open estimate
1.5	14.30	3.56	1.77	2.70	6.27
2.0	19.87	5.00	2.74	3.97	8.17
2.5	21.05	5.56	2.73	4.04	8.73
2.8	22.31	5.98	2.99	4.22	9.12
2.9	24.39	6.33	3.47	4.82	9.78
3.0	25.20	6.42	3.79	5.20	9.79
3.1	26.21	6.67	4.01	5.37	10.15
3.2	27.46	6.88	4.33	5.71	10.54
3.3	29.08	7.23	4.73	6.23	10.89
3.4	29.95	7.36	5.05	6.50	11.04
3.5	31.29	7.57	5.41	6.89	11.41
3.6	32.96	7.91	5.78	7.43	11.84
3.7	34.39	8.16	6.14	7.87	12.22
3.8	35.91	8.34	6.61	8.42	12.54
3.9	37.80	8.65	7.06	9.08	13.02
4.0	39.15	8.85	7.46	9.57	13.27
4.1	40.78	9.11	7.86	10.13	13.69
4.2	42.52	9.39	8.25	10.78	14.10
4.3	44.31	9.68	8.66	11.47	14.50
4.4	46.07	9.93	9.06	12.17	14.91
4.5	47.70	10.21	9.42	12.77	15.29
4.6	49.82	10.57	9.83	13.60	15.83
4.7	51.71	10.89	10.21	14.30	16.31
4.8	53.78	11.26	10.63	15.09	16.81
4.9	55.72	11.58	11.05	15.83	17.26
5.0	57.56	11.87	11.50	16.49	17.70
5.1	59.80	12.24	11.99	17.32	18.26
5.2	61.90	12.58	12.48	18.07	18.77
5.3	64.02	12.90	13.01	18.84	19.27
5.4	66.40	13.32	13.54	19.67	19.88
5.5	68.67	13.75	13.99	20.47	20.47
5.6	71.37	14.23	14.56	21.37	21.22
5.7	73.75	14.69	14.99	22.14	21.93
5.8	75.95	15.15	15.36	22.82	22.62

Table 1: 2016 Attainment 8 estimates and Attainment 8 element estimates for each key stage 2 fine level band

Source: 2015/16 key stage 4 attainment data

- pupils with mean key stage 2 fine grade score of ≤ 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 ≥ 5.8 are assigned a key stage 2 score of 5.8

2016 Average number of EBacc and open slots filled

Key stage 2 fine level band	Average number of EBacc slots filled	Average number of open slots filled
1.5	1.02	1.86
2.0	1.45	2.31
2.5	1.54	2.41
2.8	1.67	2.52
2.9	1.80	2.57
3.0	1.84	2.57
3.1	1.89	2.60
3.2	1.96	2.65
3.3	2.03	2.69
3.4	2.08	2.70
3.5	2.12	2.71
3.6	2.23	2.77
3.7	2.28	2.79
3.8	2.35	2.80
3.9	2.43	2.82
4.0	2.47	2.83
4.1	2.53	2.86
4.2	2.60	2.88
4.3	2.66	2.90
4.4	2.71	2.91
4.5	2.75	2.91
4.6	2.81	2.93
4.7	2.83	2.94
4.8	2.87	2.95
4.9	2.90	2.96
5.0	2.92	2.96
5.1	2.94	2.97
5.2	2.95	2.98
5.3	2.96	2.98
5.4	2.97	2.98
5.5	2.98	2.98
5.6	2.99	2.99
5.7	2.99	2.99
5.8	2.99	2.99

Table 3: 2016 average number of EBacc and open slots filled (out of 3) in Attainment 8 by key stage 2 fine level band

Source: 2015/16 key stage 4 attainment data

2016 Standard deviation of all Progress 8 scores and Progress 8 element scores nationally

The below standard deviations are based on the Progress 8 scores of all eligible pupils at mainstream schools and are the national figures used in confidence interval calculations.

Measure	Standard deviation of pupil scores nationally
Progress 8	1.0652
Progress 8 English element	1.1307
Progress 8 maths element	1.2403
Progress 8 EBacc element	1.3858
Progress 8 Open element	1.2371

Table 4: 2016 standard deviations of Progress 8 and Progress 8 element scores nationally

Source: 2015/16 key stage 4 attainment data

For more information on calculating and interpreting confidence intervals please see annex D of the [Progress 8 and Attainment 8](#) guidance.

Further information

Useful resources and external organisations

- Progress 8 and Attainment 8 guidance 2016
www.gov.uk/government/publications/progress-8-school-performance-measure



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Reference: DFE-00239-2016



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