An analysis of grade boundary marks in A levels and GCSEs if the 2020 'standard' was applied to 2019 results

Research Report

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Introduction

The aim of this research was to determine the standard that was effectively applied to GCSEs and A levels in June 2020 by the decision to accept the maximum of the centre assessed grade and the calculated grade.

The data for this analysis came from the results tables for GCSEs and A levels in 2019 and 2020 in the ISP warehouse. I restricted the data to common centres in 2019 and 2020 (centres which had at least one candidate taking the subject in both years). In a normal year we would expect performance across the common centres to be very similar compared to the previous year. Therefore, by restricting to these centres, it was possible to estimate the magnitude of the change to the standard in 2020, compared with 2019[1].

In order to analyse what happened to the standard in 2020, I first calculated the cumulative percentages of candidates in the common centres achieving each grade or higher in 2020, in each GCSE and A level subject. Then I found equivalent boundaries in 2019, so that the cumulative percentages were as close as possible to the results for 2020. An example of this procedure is presented in Table 1 (for English Literature A level, H472).

Table 1: Example of process for determining the adjusted grade boundary marks for 2019

Grade	Actual cum % 2019	Actual grade boundary mark 2019	Cum % 2020	Adjusted grade boundary mark 2019
A*	11.2	188	18.3	183
A	30.9	177	43.3	169
B	65.9	155	73.8	148
C	88.6	133	93.2	124
D	97.6	111	99.0	97
E	99.4	89	99.9	24

This demonstrates how much the grade boundaries needed to be lowered in 2019 in order for the standard to be the same as 2020. For example, the A* boundary needed to be lowered from 188 to 183 and the E grade boundary from 89 to 24.

In order to give some context to the magnitude of the changes to the grade boundaries, a measure was calculated of the difference in grade boundary marks as a proportion of the average grade band width. Grade band width refers to the difference in marks between one boundary and the next. An additional measure calculated the difference in grade boundary marks as a proportion of the maximum mark on the paper.

Most GCSE and A level subjects had no optionality, meaning that there was only one set of overall grade boundaries. There were also a few subjects where there was some choice of which components to take, but the grade boundaries for these components were the same, meaning that the overall boundaries were the same, no matter which option was taken. For these subjects, the calculation of the equivalent boundaries was relatively straightforward. However, there were some subjects where the overall grade boundaries were different, depending on which 'route' students took. For these subjects, it was not possible to use all of the

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[1] To maintain standards in a normal year, awarding bodies use prediction matrices / prior attainment rather than common centres, and these don't always agree. However, to generate prediction matrices for the 2020 results would have required data from all boards and this was not available. Therefore, using common centres was the best available method.

data to calculate the equivalent boundaries. There were six subjects (A level Classical Civilisation H408 and Religious Studies H573; GCSE Latin J282, Classical Greek J292, History A J410 and History B J411) where the route taken was indicated in the data by an 'option code' variable. This meant it was possible to select students taking the most common route, and run the analysis on these students only. Finally, there were three subjects for which there was no indication in the data of which route they took (A level Further Maths A and B and History A). These were excluded from the analysis.

For GCSEs there was an added complication of tiered subjects, with different grade boundaries across the two tiers. For these subjects, two different methods for determining equivalent boundaries were attempted. Firstly, the equivalent boundaries were set by treating the two different tiers completely separately, as if they were different subjects. Secondly, the results of the two tiers from 2019 were combined onto a common scale (using the results of the equating undertaken by OCR in order to set grade boundary marks on the overlapping grades in June 2019), and this data was used to find overall equivalent boundaries. The results of the equating were then used in reverse to find the equivalent boundaries on the different tiers.

Results

A levels

Table 2 presents the results for A levels. This shows the number of students in the common centres in 2019 and 2020 in each subject, and the change in the grade boundary mark at each grade between the actual 2019 and the 2019 if the 2020 standard was applied (as a proportion of the average grade band width). Table 3 presents the same data as a percentage of the maximum mark in the subject. For reference, tables of the actual and adjusted grade boundaries and tables of the cumulative percentages achieving each grade for 2019 are presented in in Appendix A (Tables A1 and A2). Appendix B shows the number of common centres and numbers of students within those centres for each subject in 2019, and what these numbers represent in terms of the percentages of all OCR centres and students (in 2019).

Table 2 shows that, overall, the mean fall in the grade boundaries was 0.76 of a grade. The subject means varied between 0.45 of a grade for Maths (specification B) and 1.42 of a grade for Latin. However, we should be cautious in the interpretation of the results for Latin because the number of students achieving some of the grades was relatively low. The largest mean for a subject with more than 1,000 students was for Computer Science (1.05).

The biggest reduction at an individual grade was at grade E on English Literature (3.28), which saw the grade boundary fall from 89 in the actual June 2019 to 24 if the 2020 standard was applied. However, there were very few students with such a low mark in the common centres, so that to increase the cumulative percentage by even a small amount required a big drop in the boundary mark. Note that the missing data for grades C, D and E on Classical Greek was because in 2020 there were no students in the common centres who achieved below a grade B. Similarly, the data for grade E on Music is missing because there were no students in the common centres who achieved a grade U.

There were some interesting differences in the average changes at each grade. There was a clear pattern whereby the size of the change was higher at lower grades. The biggest average difference was 1.37 grades at grade E, compared with 0.48 of a grade at grade A*.

As for the changes in terms of percentages of maximum mark, Table 3 shows that the overall average change was 7.9%. At subject level (amongst subjects with at least 1,000 students), the changes varied between 5.3% (English Language & Literature) and 11.1% (Computer Science). The biggest fall was grade E on English Literature, which was lower by 65 marks out of a maximum of 200 (32.5%). Again, there were substantial differences between grades, with the largest average change being at grade E (14.4%) and the smallest at grade A* (5.0%).

Figure 1 compares the actual 2019 boundaries with those generated if the 2020 standard was applied, for all A level subjects. To be consistent, these boundaries were calculated as the percentage of the maximum mark for the subject. This shows that the gap between actual 2019 and adjusted 2019 boundaries tended to be higher for lower grades. This figure also allows easy identification of instances where the adjusted boundaries were below the actual 2019 boundary for the grade one lower. For example, the adjusted D grade boundary for Computer Science (27) was below the actual 2019 E grade boundary (29). The figure also shows that for some subjects, the E grade boundary was particularly low (around 5% of the maximum mark).

Table 2: Adjustment to 2019 grade boundaries if 2020 standard applied (as a proportion of grade band width, A levels)

Subject	N 2019	N 2020	Grade E	Grade D	Grade C	Grade B	Grade A	Grade A star	Mean
Ancient History	574	562	1.13	0.47	0.23	0.16	0.31	0.47	**0.46**
Art & Design	5,608	5,640	1.78	0.84	0.75	0.61	0.56	0.19	**0.79**
Biology A	20,527	19,306	1.00	0.74	0.78	0.70	0.65	0.57	**0.74**
Biology B	216	212	0.96	0.92	0.96	0.70	0.57	0.57	**0.78**
Business	962	990	1.28	0.68	0.56	0.51	0.38	0.38	**0.63**
Chemistry A	21,986	20,839	1.03	0.92	0.95	0.72	0.57	0.37	**0.76**
Chemistry B	2,751	2,619	0.96	0.75	0.75	0.68	0.58	0.48	**0.70**
Class Civ (Option B)	415	439	2.25	0.71	0.46	0.57	0.68	0.64	**0.89**
Classical Greek	170	146	n/a	n/a	n/a	2.27	1.10	0.52	**1.30**
Computer Science	5,344	5,784	1.51	1.16	1.03	0.92	0.89	0.81	**1.05**
D & T	1,216	1,159	1.95	0.82	0.71	0.64	0.71	0.57	**0.90**
Drama / Theatre	604	628	1.31	0.52	0.71	0.63	0.67	0.60	**0.74**
Economics	2,678	2,663	1.61	0.73	0.58	0.44	0.40	0.33	**0.68**
English Lang & Lit	1,073	1,115	1.74	0.16	0.33	0.38	0.49	0.33	**0.57**
English Language	1,654	1,696	1.68	0.50	0.41	0.41	0.50	0.41	**0.65**
English Literature	9,525	9,677	3.28	0.71	0.45	0.35	0.40	0.25	**0.91**
Film Studies	542	479	2.65	1.27	0.72	0.60	0.51	0.54	**1.05**
Geography	4,752	4,044	1.18	0.57	0.51	0.44	0.44	0.41	**0.59**
Geology	449	349	0.33	0.58	0.69	0.80	0.69	0.80	**0.65**
Latin	954	893	1.20	1.58	2.19	1.75	1.13	0.65	**1.42**
Law	5,878	6,140	0.83	0.75	0.75	0.55	0.41	0.30	**0.60**
Maths A	6,587	6800	0.65	0.71	0.77	0.65	0.43	0.51	**0.62**
Maths B	6,063	6,462	0.64	0.52	0.52	0.39	0.33	0.33	**0.45**
Media Studies	2,316	2,239	0.92	0.55	0.50	0.46	0.41	0.50	**0.56**
Music	256	248	n/a	0.66	0.84	0.87	0.77	0.80	**0.68**
Physical Education	4,675	4,972	1.32	0.92	0.88	0.68	0.68	0.48	**0.83**
Physics A	9,669	9,493	1.37	0.96	0.86	0.68	0.58	0.41	**0.81**
Physics B	1,418	1,169	0.90	0.80	0.76	0.66	0.56	0.49	**0.69**
Psychology	5,206	5,184	1.14	0.75	0.50	0.36	0.43	0.39	**0.60**
RS (Option A)	6,368	5,698	1.47	0.71	0.58	0.47	0.49	0.51	**0.70**
Sociology	3,525	3,438	1.78	0.76	0.41	0.29	0.32	0.25	**0.64**
Mean			**1.37**	**0.76**	**0.70**	**0.66**	**0.57**	**0.48**	**0.76**

Table 3: Adjustment to 2019 grade boundaries if 2020 standard applied (as a proportion of maximum mark, A levels)

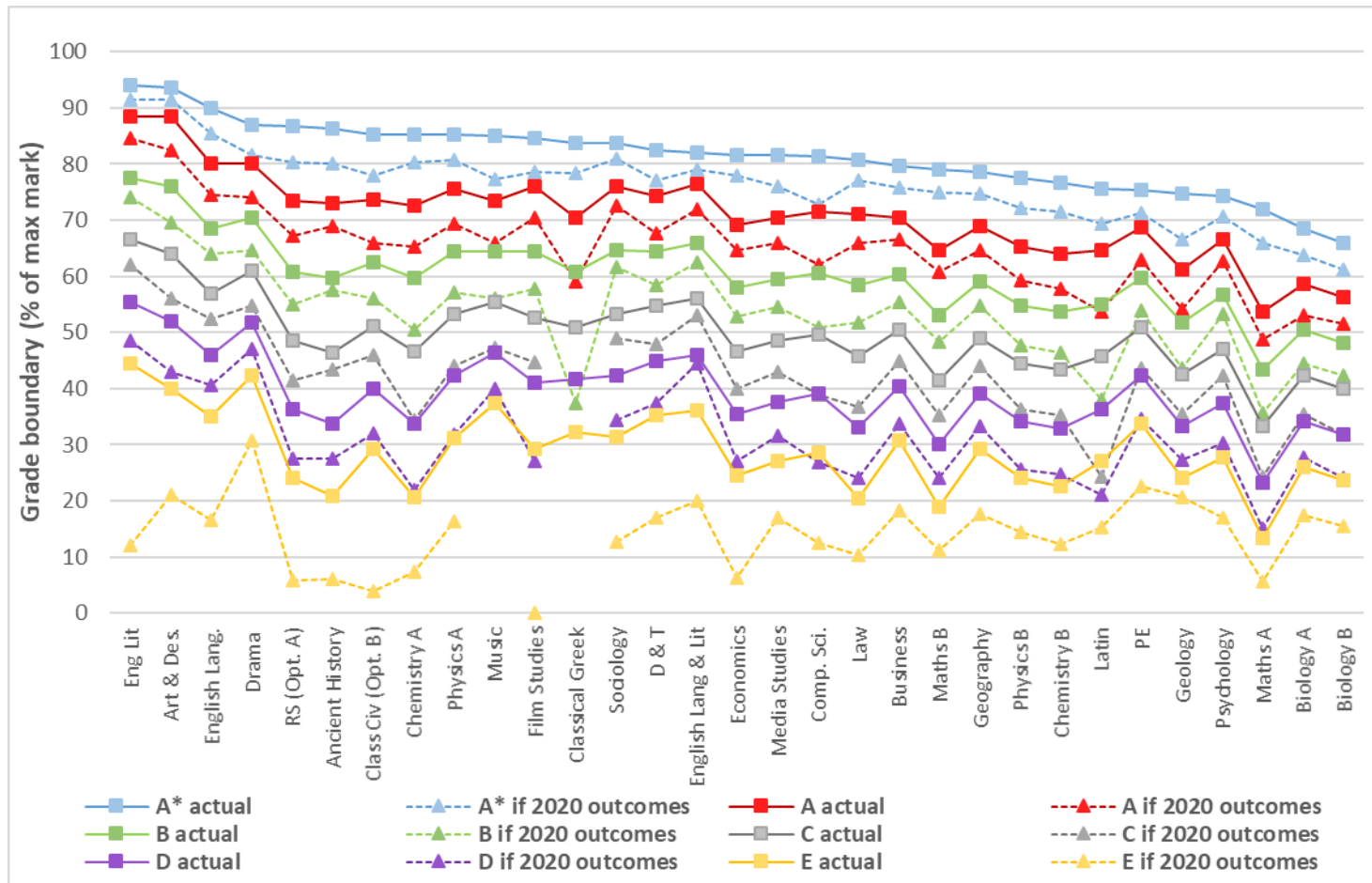| Subject	N 2019	N 2020	Grade E	Grade D	Grade C	Grade B	Grade A	Grade A star	Mean
Ancient History	574	562	14.8%	6.1%	3.1%	2.0%	4.1%	6.1%	**6.0%**
Art & Design	5,608	5,640	19.0%	9.0%	8.0%	6.5%	6.0%	2.0%	**8.4%**
Biology A	20,527	19,306	8.5%	6.3%	6.7%	5.9%	5.6%	4.8%	**6.3%**
Biology B	216	212	8.1%	7.8%	8.1%	5.9%	4.8%	4.8%	**6.6%**
Business	962	990	12.5%	6.7%	5.4%	5.0%	3.8%	3.8%	**6.2%**
Chemistry A	21,986	20,839	13.3%	11.9%	12.2%	9.3%	7.4%	4.8%	**9.8%**
Chemistry B	2,751	2,619	10.4%	8.1%	8.1%	7.4%	6.3%	5.2%	**7.6%**
Class Civ (Option B)	415	439	25.2%	8.0%	5.2%	6.4%	7.6%	7.2%	**9.9%**
Classical Greek	170	146	n/a	n/a	n/a	23.3%	11.3%	5.3%	**13.3%**
Computer Science	5,344	5,784	16.0%	12.3%	10.9%	9.7%	9.4%	8.6%	**11.1%**
D & T	1,216	1,159	18.3%	7.7%	6.7%	6.0%	6.7%	5.3%	**8.4%**
Drama / Theatre	604	628	11.7%	4.7%	6.3%	5.7%	6.0%	5.3%	**6.6%**
Economics	2,678	2,663	18.3%	8.3%	6.7%	5.0%	4.6%	3.8%	**7.8%**
English Lang & Lit	1,073	1,115	16.0%	1.5%	3.0%	3.5%	4.5%	3.0%	**5.3%**
English Language	1,654	1,696	18.5%	5.5%	4.5%	4.5%	5.5%	4.5%	**7.2%**
English Literature	9,525	9,677	32.5%	7.0%	4.5%	3.5%	4.0%	2.5%	**9.0%**
Film Studies	542	479	29.3%	14.0%	8.0%	6.7%	5.7%	6.0%	**11.6%**
Geography	4,752	4,044	11.7%	5.7%	5.0%	4.3%	4.3%	4.0%	**5.8%**
Geology	449	349	3.3%	5.9%	7.0%	8.1%	7.0%	8.1%	**6.6%**
Latin	954	893	11.7%	15.3%	21.3%	17.0%	11.0%	6.3%	**13.8%**
Law	5,878	6,140	10.0%	9.0%	9.0%	6.7%	5.0%	3.7%	**7.2%**
Maths A	6,587	6,800	7.7%	8.3%	9.0%	7.7%	5.0%	6.0%	**7.3%**
Maths B	6,063	6,462	7.6%	6.2%	6.2%	4.7%	4.0%	4.0%	**5.5%**
Media Studies	2,316	2,239	10.0%	6.0%	5.5%	5.0%	4.5%	5.5%	**6.1%**
Music	256	248	n/a	6.3%	8.0%	8.3%	7.3%	7.7%	**6.0%**
Physical Education	4,675	4,972	11.0%	7.7%	7.3%	5.7%	5.7%	4.0%	**6.9%**
Physics A	9,669	9,493	14.8%	10.4%	9.3%	7.4%	6.3%	4.4%	**8.8%**
Physics B	1,418	1,169	9.6%	8.5%	8.1%	7.0%	5.9%	5.2%	**7.4%**
Psychology	5,206	5,184	10.7%	7.0%	4.7%	3.3%	4.0%	3.7%	**5.6%**
RS (Option A)	6,368	5,698	18.3%	8.9%	7.2%	5.8%	6.1%	6.4%	**8.8%**
Sociology	3,525	3,438	18.7%	8.0%	4.3%	3.0%	3.3%	2.7%	**6.7%**
Mean			**14.4%**	**7.9%**	**7.3%**	**6.8%**	**5.9%**	**5.0%**	**7.9%**

Figure 1: Comparison of grade boundary marks (percentage of maximum marks, actual 2019 v 2019 if 2020 standard applied, A levels)

GCSEs

Table 4 shows the change in the GCSE grade boundary marks between the actual 2019 and the adjusted 2019 (as a proportion of the average grade band width). Table 5 presents the same data as a percentage of the maximum mark in the subject. For the tiered subjects, the tables show the results from both methods of calculating the adjusted boundaries. Tables of the actual and adjusted grade boundaries and tables of the cumulative percentages achieving each grade for 2019 are presented in in Appendix A (Tables A3 and A4). Table B2 in Appendix B shows the number and percentage of common centres and students within those centres (in 2019).

Overall, the mean fall in the grade boundaries was 0.69 of a grade. The subject means varied between 0.29 of a grade for Maths (higher tier) and 1.54 of a grade for Classical Greek (option B). However, there were relatively few students taking Classical Greek, so we should be cautious when interpreting this result. Amongst subjects with at least 1,000 students (and with a good spread of students across all grades), the largest fall was for Computer Science (0.94).

The biggest reduction for any grade was for Classical Greek (3.54 at grade 4). This was a boundary which fell 54 marks (from an actual boundary of 99 to 45), compared with an average grade band width of 15 marks. However, the size of this reduction was partly due to the low number of students achieving low marks on this specification. There was missing data for grades 1, 2 and 3 on Classical Greek and for grade 1 on Latin (option F), because in 2020 there were no students in the common centres who achieved these grades.

In terms of the average changes at each grade[2], these were largest for grades 2, 3 and 4. For grades above this, there was a clear pattern with the size of the change lower at higher grades. The smallest average difference was 0.32 grades at grade 9.

For the tiered subjects, the equivalent boundaries on higher tier were almost always lower when calculated using the combined scale than when calculated separately. The differences tended to be greater at the lower grades. One possible reason for this is that when teachers were ranking their students predicted a grade 4 or 5, they were more favourable to the higher tier students than to the foundation tier students, necessitating a big fall in grade boundaries on the higher tier in 2019 in order to match the 2020 outcomes. Combining the tiered data onto one scale meant that this bias was factored out.

Table 5 shows that the overall average change in boundaries as a proportion of maximum mark was 6.0%. At subject level (amongst subjects with at least 1,000 students and with a good spread of students across all grades), the average changes varied between 3.3% (Maths higher tier) and 8.5% (Computer Science).

Figure 2 displays the actual 2019 boundaries with those generated if the 2020 standard was applied, for all the untiered GCSE subjects. Figure 3 presents the same comparison for the higher tier boundaries and Figure 4 for the foundation tier boundaries.

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[2] The means were calculated using the results from the combined method for the tiered subjects (i.e. the results from using the separate method were ignored).

Table 4: Adjustment to 2019 grade boundaries if 2020 standard applied (as a proportion of grade band width, GCSEs)

Subject	N 2019	N 2020	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Mean
Ancient History	695	694	1.24	1.76	1.76	1.29	0.82	0.65	0.59	0.59	0.59	1.03
Art & Design	19,007	19,670	1.27	1.11	1.16	0.91	0.56	0.41	0.35	0.25	0.20	0.69
Biology A (F, sep)	1,211	1,393	0.36	0.87	1.13	1.03	0.51	n/a	n/a	n/a	n/a	0.78
Biology A (F, comb)	1,211	1,393	0.36	0.77	1.03	0.87	0.51	n/a	n/a	n/a	n/a	0.71
Biology A (H, sep)	7,321	7,121	n/a	n/a	n/a	1.91	1.06	0.85	0.64	0.35	0.28	0.85
Biology A (H, comb)	7,321	7,121	n/a	n/a	n/a	1.20	0.78	0.56	0.56	0.28	0.28	0.61
Biology B (F, sep)	462	492	0.86	0.47	0.52	0.67	0.31	n/a	n/a	n/a	n/a	0.57
Biology B (F, comb)	462	492	0.56	0.47	0.57	0.72	0.47	n/a	n/a	n/a	n/a	0.56
Biology B (H, sep)	1,625	1,707	n/a	n/a	n/a	1.57	1.22	0.70	0.52	0.35	0.35	0.78
Biology B (H, comb)	1,625	1,707	n/a	n/a	n/a	1.13	0.78	0.52	0.52	0.26	0.35	0.59
Business	13,049	14,105	1.00	1.00	1.08	1.00	0.58	0.50	0.50	0.42	0.33	0.71
Chemistry A (F, sep)	1,063	1,133	0.16	0.65	1.03	0.81	0.27	n/a	n/a	n/a	n/a	0.58
Chemistry A (F, comb)	1,063	1,133	0.11	0.65	1.08	0.92	0.65	n/a	n/a	n/a	n/a	0.68
Chemistry A (H, sep)	6,754	6,669	n/a	n/a	n/a	1.45	1.17	0.90	0.62	0.48	0.34	0.83
Chemistry A (H, comb)	6,754	6,669	n/a	n/a	n/a	0.97	0.83	0.69	0.55	0.41	0.28	0.62
Chemistry B (F, sep)	410	388	0.84	1.02	0.72	0.60	0.24	n/a	n/a	n/a	n/a	0.68
Chemistry B (F, comb)	410	388	0.84	1.02	0.78	0.84	0.60	n/a	n/a	n/a	n/a	0.82
Chemistry B (H, sep)	1,638	1,782	n/a	n/a	n/a	0.79	0.93	0.64	0.50	0.21	0.14	0.54
Chemistry B (H, comb)	1,638	1,782	n/a	n/a	n/a	0.79	0.71	0.50	0.50	0.29	0.21	0.50
Citizenship Studies	1,993	1,926	0.26	0.72	0.85	0.66	0.39	0.39	0.46	0.33	0.33	0.49
Class. Greek (option B)	586	580	n/a	n/a	n/a	3.54	1.97	1.84	0.92	0.52	0.46	1.54
Classical Civ.	3,343	3,467	1.48	1.68	1.82	2.02	1.55	1.08	0.81	0.61	0.47	1.28
Computer Science	50,916	49,462	0.77	1.04	1.25	1.32	1.04	0.97	0.83	0.70	0.56	0.94
D & T	5,791	5,722	0.92	1.21	1.04	0.92	0.75	0.75	0.69	0.52	0.46	0.81
Drama	7,993	8,309	1.50	1.07	0.86	0.81	0.48	0.43	0.38	0.32	0.27	0.68
Economics	3,399	3,639	1.72	1.98	1.55	1.38	1.12	0.86	0.77	0.60	0.43	1.16
English Language	11,021	10,540	0.77	1.04	0.70	0.56	0.42	0.35	0.42	0.35	0.28	0.54
English Literature	9,309	9,417	0.53	0.80	0.60	0.40	0.33	0.40	0.40	0.20	0.13	0.42
Food Prep. & Nutrition	3,373	3,465	1.40	1.09	0.74	0.82	0.62	0.59	0.59	0.47	0.35	0.74
Geography A	6,114	6,253	0.46	0.70	0.75	0.70	0.41	0.35	0.35	0.29	0.29	0.48
Geography B	18,319	18,519	0.64	0.82	0.82	0.76	0.41	0.35	0.29	0.29	0.23	0.51
History A (option BB)	1,710	1,729	0.51	0.96	0.96	1.11	0.76	0.56	0.41	0.35	0.25	0.65
History B (option BF)	4,127	4,769	0.67	0.77	0.67	0.57	0.26	0.15	0.10	0.10	0.10	0.38

												Mean
Latin (option F)	3,873	4,037	n/a	0.28	1.02	0.96	0.91	0.85	0.62	0.34	0.23	**0.65**
Maths (F, sep)	26,247	27,847	0.19	0.34	0.39	0.34	0.19	n/a	n/a	n/a	n/a	**0.29**
Maths (F, comb)	26,247	27,847	0.19	0.32	0.39	0.34	0.29	n/a	n/a	n/a	n/a	**0.31**
Maths (H, sep)	16,381	16,464	n/a	n/a	n/a	0.88	0.61	0.47	0.38	0.35	0.32	**0.50**
Maths (H, comb)	16,381	16,464	n/a	n/a	n/a	0.32	0.32	0.18	0.32	0.35	0.26	**0.29**
Media Studies	3,105	2,933	0.76	1.08	1.30	0.97	0.59	0.49	0.43	0.32	0.32	**0.70**
Music	6,297	6,670	2.54	1.21	0.89	0.89	0.63	0.57	0.51	0.32	0.32	**0.87**
Physical Education	19,485	18,979	0.68	0.85	0.79	0.79	0.51	0.45	0.40	0.34	0.34	**0.57**
Physics A (F, sep)	922	1,004	0.44	0.93	0.98	0.63	0.20	n/a	n/a	n/a	n/a	**0.63**
Physics A (F, comb)	922	1,004	0.34	0.63	0.93	0.73	0.49	n/a	n/a	n/a	n/a	**0.62**
Physics A (H, sep)	6,668	6,506	n/a	n/a	n/a	1.93	1.31	0.90	0.55	0.34	0.28	**0.89**
Physics A (H, comb)	6,668	6,506	n/a	n/a	n/a	1.10	0.76	0.62	0.41	0.28	0.28	**0.57**
Physics B (F, sep)	434	392	0.62	0.74	0.53	0.53	0.16	n/a	n/a	n/a	n/a	**0.51**
Physics B (F, comb)	434	392	0.62	0.79	0.79	0.74	0.63	n/a	n/a	n/a	n/a	**0.71**
Physics B (H, sep)	1,458	1,587	n/a	n/a	n/a	1.02	0.95	0.68	0.41	0.20	0.20	**0.58**
Physics B (H, comb)	1,458	1,587	n/a	n/a	n/a	0.75	0.82	0.61	0.41	0.27	0.20	**0.51**
Psychology	3,511	3,669	1.31	1.31	1.31	1.24	0.83	0.76	0.69	0.48	0.41	**0.93**
Religious Studies	6,621	6,487	0.56	0.70	0.70	0.61	0.51	0.51	0.37	0.28	0.28	**0.50**
Mean			**0.86**	**0.96**	**0.97**	**0.96**	**0.68**	**0.60**	**0.51**	**0.37**	**0.32**	**0.69**

Table 5: Adjustment to 2019 grade boundaries if 2020 standard applied (as a proportion of maximum mark, GCSEs)

Subject	N 2019	N 2020	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Mean
Ancient History	695	694	10.0%	14.3%	14.3%	10.5%	6.7%	5.2%	4.8%	4.8%	4.8%	**8.4%**
Art & Design	19,007	19,670	12.5%	11.0%	11.5%	9.0%	5.5%	4.0%	3.5%	2.5%	2.0%	**6.8%**
Biology A (F, sep)	1,211	1,393	3.9%	9.4%	12.2%	11.1%	5.6%	n/a	n/a	n/a	n/a	8.4%
Biology A (F, comb)	1,211	1,393	3.9%	8.3%	11.1%	9.4%	5.6%	n/a	n/a	n/a	n/a	**7.7%**
Biology A (H, sep)	7,321	7,121	n/a	n/a	n/a	15.0%	8.3%	6.7%	5.0%	2.8%	2.2%	6.7%
Biology A (H, comb)	7,321	7,121	n/a	n/a	n/a	9.4%	6.1%	4.4%	4.4%	2.2%	2.2%	**4.8%**
Biology B (F, sep)	462	492	9.4%	5.0%	5.6%	7.2%	3.3%	n/a	n/a	n/a	n/a	6.1%
Biology B (F, comb)	462	492	6.1%	5.0%	6.1%	7.8%	5.0%	n/a	n/a	n/a	n/a	**6.0%**
Biology B (H, sep)	1,625	1,707	n/a	n/a	n/a	10.0%	7.8%	4.4%	3.3%	2.2%	2.2%	5.0%
Biology B (H, comb)	1,625	1,707	n/a	n/a	n/a	7.2%	5.0%	3.3%	3.3%	1.7%	2.2%	**3.8%**
Business	13,049	14,105	7.5%	7.5%	8.1%	7.5%	4.4%	3.8%	3.8%	3.1%	2.5%	**5.3%**
Chemistry A (F, sep)	1,063	1,133	1.7%	6.7%	10.6%	8.3%	2.8%	n/a	n/a	n/a	n/a	6.0%
Chemistry A (F, comb)	1,063	1,133	1.1%	6.7%	11.1%	9.4%	6.7%	n/a	n/a	n/a	n/a	**7.0%**
Chemistry A (H, sep)	6,754	6,669	n/a	n/a	n/a	11.7%	9.4%	7.2%	5.0%	3.9%	2.8%	6.7%
Chemistry A (H, comb)	6,754	6,669	n/a	n/a	n/a	7.8%	6.7%	5.6%	4.4%	3.3%	2.2%	**5.0%**
Chemistry B (F, sep)	410	388	7.8%	9.4%	6.7%	5.6%	2.2%	n/a	n/a	n/a	n/a	6.3%
Chemistry B (F, comb)	410	388	7.8%	9.4%	7.2%	7.8%	5.6%	n/a	n/a	n/a	n/a	**7.6%**
Chemistry B (H, sep)	1,638	1,782	n/a	n/a	n/a	6.1%	7.2%	5.0%	3.9%	1.7%	1.1%	4.2%
Chemistry B (H, comb)	1,638	1,782	n/a	n/a	n/a	6.1%	5.6%	3.9%	3.9%	2.2%	1.7%	**3.9%**
Citizenship Studies	1,993	1,926	2.2%	6.1%	7.2%	5.6%	3.3%	3.3%	3.9%	2.8%	2.8%	**4.1%**
Class. Greek (option B)	586	580	n/a	n/a	n/a	27.0%	15.0%	14.0%	7.0%	4.0%	3.5%	**11.8%**
Classical Civ.	3,343	3,467	12.2%	13.9%	15.0%	16.7%	12.8%	8.9%	6.7%	5.0%	3.9%	**10.6%**
Computer Science	50,916	49,462	6.9%	9.4%	11.3%	11.9%	9.4%	8.8%	7.5%	6.3%	5.0%	**8.5%**
D & T	5,791	5,722	8.0%	10.5%	9.0%	8.0%	6.5%	6.5%	6.0%	4.5%	4.0%	**7.0%**
Drama	7,993	8,309	14.0%	10.0%	8.0%	7.5%	4.5%	4.0%	3.5%	3.0%	2.5%	**6.3%**
Economics	3,399	3,639	12.5%	14.4%	11.3%	10.0%	8.1%	6.3%	5.6%	4.4%	3.1%	**8.4%**
English Language	11,021	10,540	6.9%	9.4%	6.3%	5.0%	3.8%	3.1%	3.8%	3.1%	2.5%	**4.9%**
English Literature	9,309	9,417	5.0%	7.5%	5.6%	3.8%	3.1%	3.8%	3.8%	1.9%	1.3%	**4.0%**
Food Prep. & Nutrition	3,373	3,465	12.0%	9.3%	6.3%	7.0%	5.3%	5.0%	5.0%	4.0%	3.0%	**6.3%**
Geography A	6,114	6,253	4.0%	6.0%	6.5%	6.0%	3.5%	3.0%	3.0%	2.5%	2.5%	**4.1%**
Geography B	18,319	18,519	5.5%	7.0%	7.0%	6.5%	3.5%	3.0%	2.5%	2.5%	2.0%	**4.4%**
History A (option BB)	1,710	1,729	4.8%	9.0%	9.0%	10.5%	7.1%	5.2%	3.8%	3.3%	2.4%	**6.1%**
History B (option BF)	4,127	4,769	6.2%	7.1%	6.2%	5.2%	2.4%	1.4%	1.0%	1.0%	1.0%	**3.5%**

Latin (option F)	3,873	4,037	n/a	2.5%	9.0%	8.5%	8.0%	7.5%	5.5%	3.0%	2.0%	**5.8%**
Maths (F, sep)	26,247	27,847	2.7%	4.7%	5.3%	4.7%	2.7%	n/a	n/a	n/a	n/a	4.0%
Maths (F, comb)	26,247	27,847	2.7%	4.3%	5.3%	4.7%	4.0%	n/a	n/a	n/a	n/a	**4.2%**
Maths (H, sep)	16,381	16,464	n/a	n/a	n/a	10.0%	7.0%	5.3%	4.3%	4.0%	3.7%	5.7%
Maths (H, comb)	16,381	16,464	n/a	n/a	n/a	3.7%	3.7%	2.0%	3.7%	4.0%	3.0%	**3.3%**
Media Studies	3,105	2,933	7.0%	10.0%	12.0%	9.0%	5.5%	4.5%	4.0%	3.0%	3.0%	**6.4%**
Music	6,297	6,670	20.0%	9.5%	7.0%	7.0%	5.0%	4.5%	4.0%	2.5%	2.5%	**6.9%**
Physical Education	19,485	18,979	6.0%	7.5%	7.0%	7.0%	4.5%	4.0%	3.5%	3.0%	3.0%	**5.1%**
Physics A (F, sep)	922	1,004	5.0%	10.6%	11.1%	7.2%	2.2%	n/a	n/a	n/a	n/a	7.2%
Physics A (F, comb)	922	1,004	3.9%	7.2%	10.6%	8.3%	5.6%	n/a	n/a	n/a	n/a	**7.1%**
Physics A (H, sep)	6,668	6,506	n/a	n/a	n/a	15.6%	10.6%	7.2%	4.4%	2.8%	2.2%	7.1%
Physics A (H, comb)	6,668	6,506	n/a	n/a	n/a	8.9%	6.1%	5.0%	3.3%	2.2%	2.2%	**4.6%**
Physics B (F, sep)	434	392	6.7%	7.8%	5.6%	5.6%	1.7%	n/a	n/a	n/a	n/a	5.4%
Physics B (F, comb)	434	392	6.7%	8.3%	8.3%	7.8%	6.7%	n/a	n/a	n/a	n/a	**7.6%**
Physics B (H, sep)	1,458	1,587	n/a	n/a	n/a	8.3%	7.8%	5.6%	3.3%	1.7%	1.7%	4.7%
Physics B (H, comb)	1,458	1,587	n/a	n/a	n/a	6.1%	6.7%	5.0%	3.3%	2.2%	1.7%	**4.2%**
Psychology	3,511	3,669	10.6%	10.6%	10.6%	10.0%	6.7%	6.1%	5.6%	3.9%	3.3%	**7.5%**
Religious Studies	6,621	6,487	4.8%	6.0%	6.0%	5.2%	4.4%	4.4%	3.2%	2.4%	2.4%	**4.3%**
Mean			**7.5%**	**8.5%**	**8.8%**	**8.3%**	**5.9%**	**5.0%**	**4.2%**	**3.1%**	**2.7%**	**6.0%**

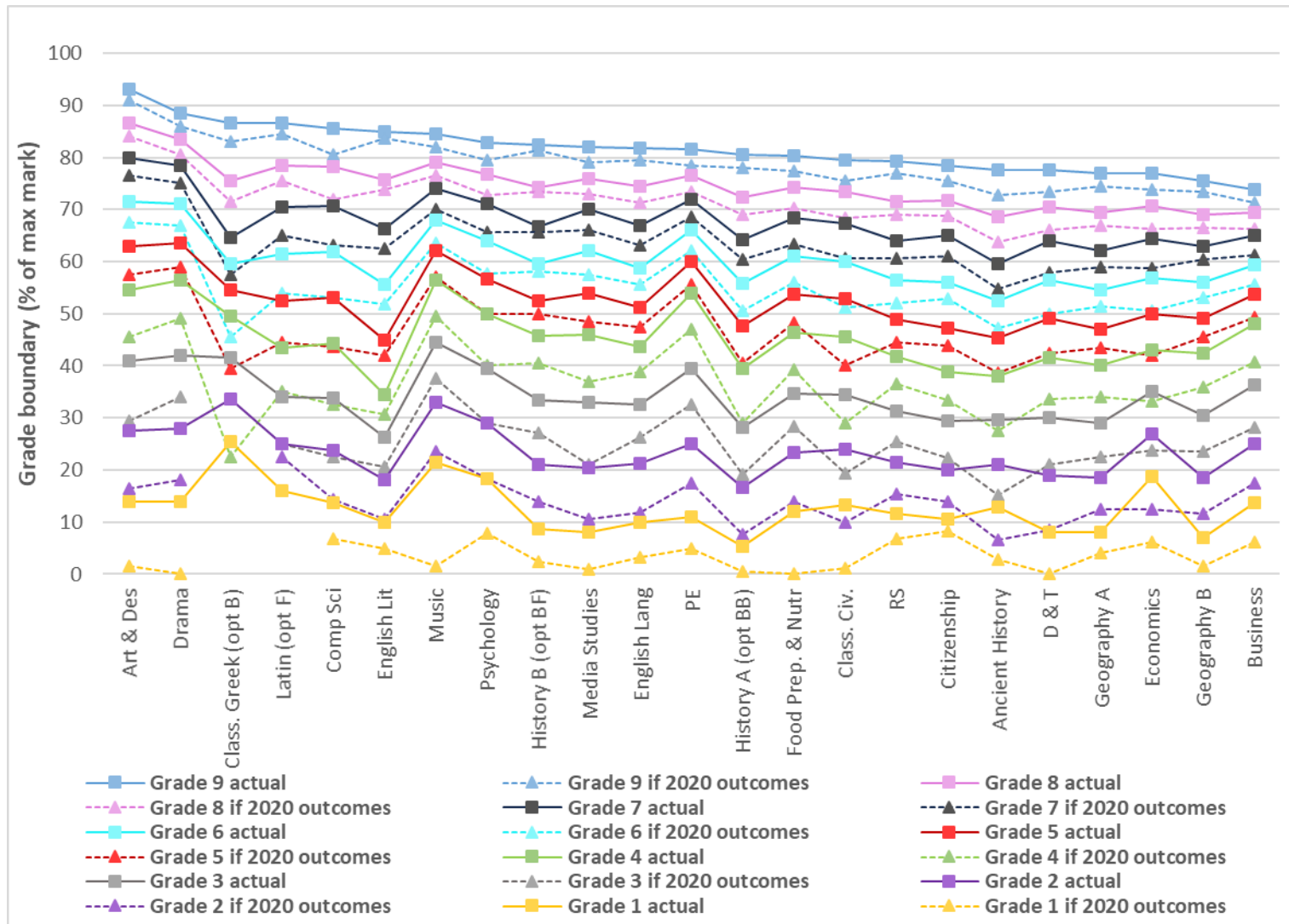Figure 2: Comparison of grade boundary marks (percentage of maximum marks, actual 2019 v 2019 if 2020 standard applied, untiered GCSEs)
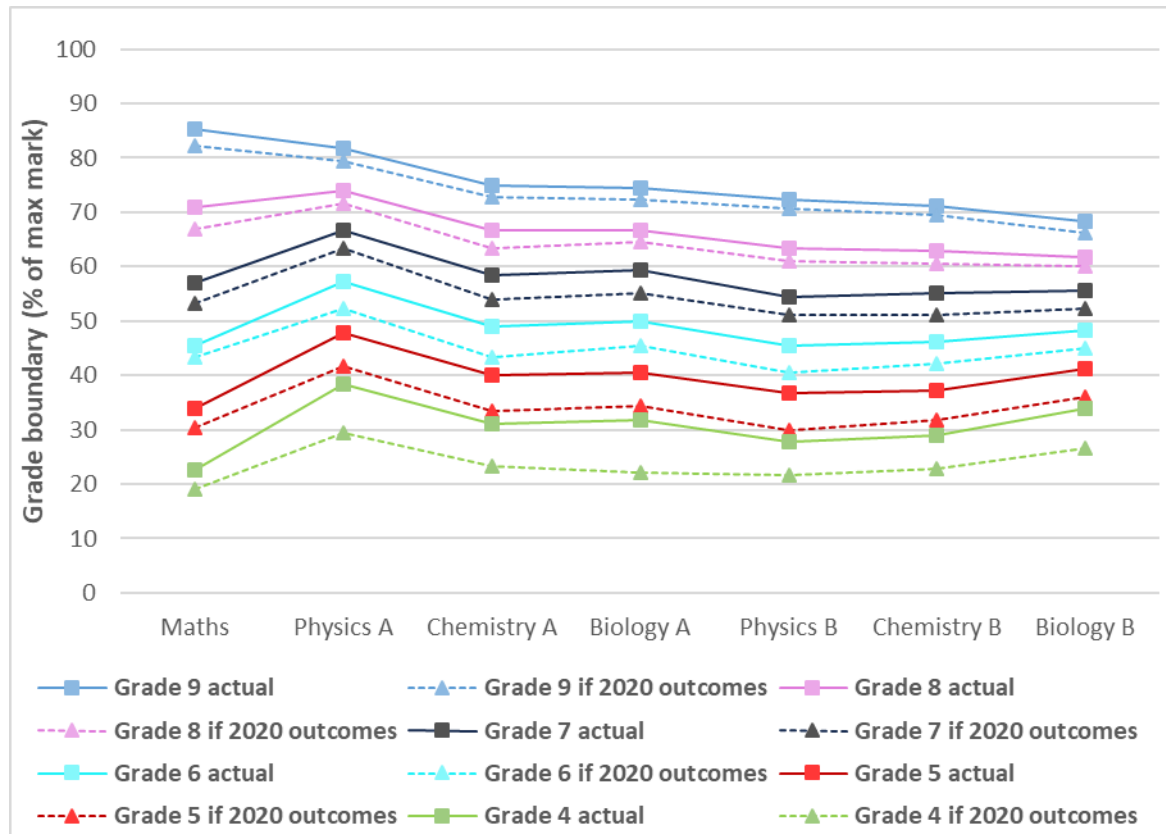
Figure 3: Comparison of grade boundary marks (percentage of maximum marks, actual 2019 v 2019 if 2020 standard applied, GCSEs higher tier)
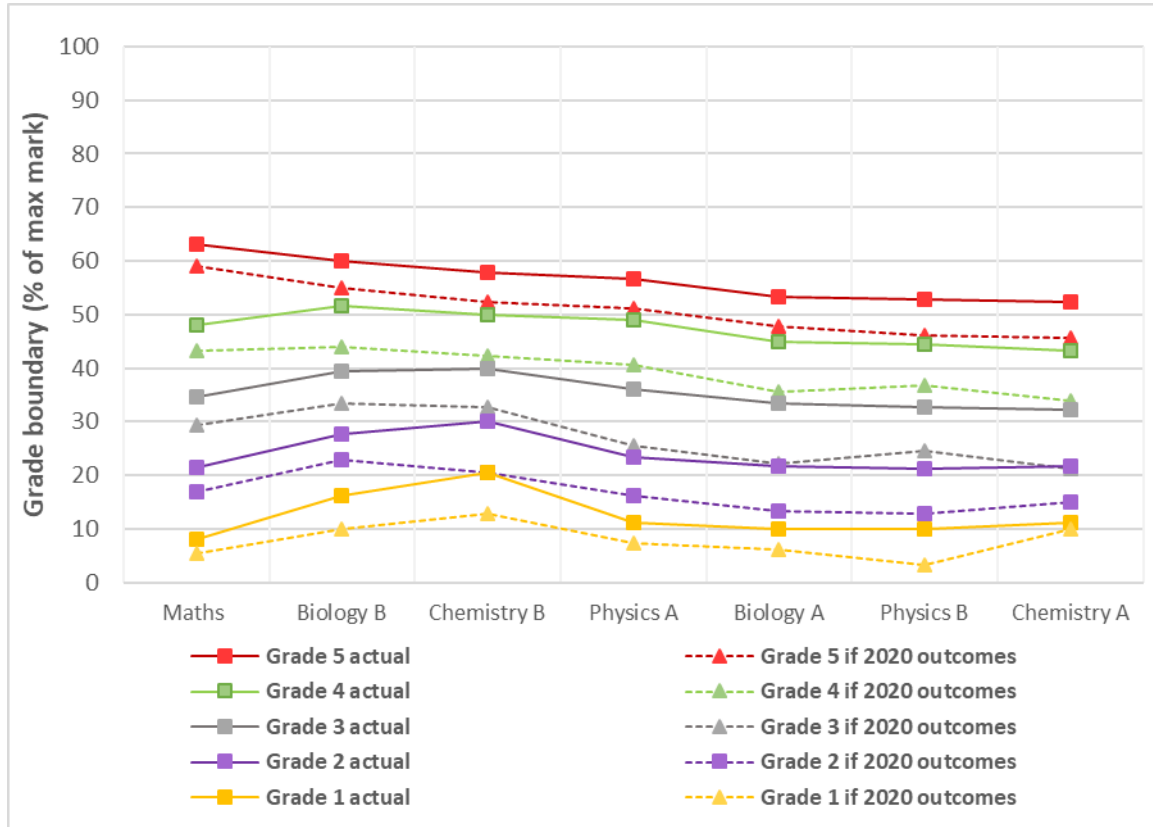
Figure 4: Comparison of grade boundary marks (percentage of maximum marks, actual 2019 v 2019 if 2020 standard applied, GCSEs foundation tier)

Appendix A: Full tables of grade boundaries and cumulative percentages (2019 actual v adjusted)

Table A1: Actual and adjusted grade boundaries for 2019 (A levels)

Subject	E Actual	E Adjusted	D Actual	D Adjusted	C Actual	C Adjusted	B Actual	B Adjusted	A Actual	A Adjusted	A* Actual	A* Adjusted
Ancient History	41	12	66	54	91	85	117	113	143	135	169	157
Art & Design	80	42	104	86	128	112	152	139	177	165	187	183
Biology A	70	47	92	75	114	96	136	120	158	143	185	172
Biology B	64	42	86	65	108	86	130	114	152	139	178	165
Business	74	44	97	81	121	108	145	133	169	160	191	182
Chemistry A	56	20	91	59	126	93	161	136	196	176	230	217
Chemistry B	61	33	89	67	117	95	145	125	173	156	207	193
Class Civ (Option B)	73	10	100	80	128	115	156	140	184	165	213	195
Classical Greek	97	n/a	125	n/a	153	n/a	182	112	211	177	251	235
Computer Science	100	44	137	94	174	136	212	178	250	217	285	255
D & T	106	51	135	112	164	144	193	175	223	203	247	231
Drama / Theatre	127	92	155	141	183	164	211	194	240	222	261	245
Economics	59	15	85	65	112	96	139	127	166	155	196	187
English Lang & Lit	72	40	92	89	112	106	132	125	153	144	164	158
English Language	70	33	92	81	114	105	137	128	160	149	180	171
English Literature	89	24	111	97	133	124	155	148	177	169	188	183
Film Studies	88	0	123	81	158	134	193	173	228	211	254	236
Geography	88	53	117	100	147	132	177	164	207	194	236	224
Geology	65	56	90	74	115	96	140	118	165	146	202	180
Latin	81	46	109	63	137	73	165	114	194	161	227	208
Law	61	31	99	72	137	110	175	155	213	198	242	231
Maths A	40	17	70	45	100	73	130	107	161	146	216	198
Maths B	52	31	83	66	114	97	146	133	178	167	217	206
Media Studies	54	34	75	63	97	86	119	109	141	132	163	152
Music	112	n/a	139	120	166	142	193	168	220	198	255	232
Physical Education	101	68	127	104	153	131	179	162	206	189	226	214
Physics A	84	44	114	86	144	119	174	154	204	187	230	218
Physics B	65	39	92	69	120	98	148	129	176	160	209	195
Psychology	83	51	112	91	141	127	170	160	200	188	223	212
RS (Option A)	87	21	131	99	175	149	219	198	264	242	312	289
Sociology	94	38	127	103	160	147	194	185	228	218	251	243

Table A2: Actual and adjusted cumulative percentages for 2019 (A levels)

Subject	E		D		C		B		A		A*	
	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020
Ancient History	98.6	99.8	95.1	97.3	84.8	89.0	56.3	62.5	21.1	31.5	2.3	8.2
Art & Design	99.1	99.9	95.5	98.6	84.4	92.8	61.2	73.7	28.5	43.6	13.4	19.2
Biology A	97.0	99.8	87.0	95.6	67.9	84.2	44.7	61.7	23.8	36.7	6.8	13.0
Biology B	97.2	100.0	86.6	97.2	70.4	86.3	49.5	63.7	29.6	41.0	12.0	18.4
Business	98.7	99.8	91.9	97.1	66.8	82.3	38.8	52.0	15.4	22.4	2.8	5.9
Chemistry A	96.7	99.7	87.6	96.1	72.8	86.8	52.6	67.5	28.8	42.2	7.5	14.3
Chemistry B	96.7	99.6	87.1	94.9	69.3	83.9	48.6	63.6	26.9	39.1	6.3	13.1
Class Civ (Option B)	99.3	100.0	97.4	98.6	89.6	94.5	66.8	80.6	31.6	52.6	4.8	16.9
Classical Greek	100.0	n/a	99.4	n/a	98.2	n/a	92.9	100.0	82.9	95.2	34.1	60.3
Computer Science	94.8	99.6	84.3	96.0	64.3	84.6	40.0	61.7	17.0	36.2	3.4	13.9
D & T	97.8	99.9	90.5	96.6	72.4	86.3	45.3	62.3	18.2	34.8	5.5	12.9
Drama / Theatre	99.7	100.0	95.7	98.6	81.1	92.2	49.5	69.9	15.9	34.2	3.0	10.2
Economics	98.7	99.9	94.0	98.0	80.0	89.6	55.8	67.7	29.7	39.5	7.0	12.3
English Lang & Lit	99.4	99.9	97.6	99.0	88.6	93.2	65.9	73.8	30.9	43.3	11.2	18.3
English Language	99.2	99.6	95.9	97.5	77.2	84.1	41.9	50.9	11.4	19.0	3.3	6.1
English Literature	99.3	99.9	95.5	97.8	76.3	86.4	40.1	53.0	11.9	22.5	1.8	4.9
Film Studies	98.3	100.0	95.4	98.8	75.8	91.2	42.4	62.4	13.5	27.1	1.5	6.9
Geography	99.1	99.9	95.5	98.3	82.6	90.6	58.7	69.6	30.1	41.0	7.9	14.4
Geology	98.4	99.4	87.8	95.7	66.4	84.2	41.9	62.5	22.5	35.5	4.9	13.8
Latin	99.4	100.0	97.7	99.9	93.0	99.6	84.7	97.3	65.8	85.8	26.2	46.3
Law	96.6	99.3	86.8	94.4	67.5	81.6	41.3	54.8	17.1	26.0	4.7	8.4
Maths A	98.0	99.8	91.1	97.1	80.2	90.3	66.8	76.9	50.5	58.8	21.8	30.6
Maths B	98.0	99.6	92.2	95.9	82.4	88.1	67.8	73.8	47.2	54.5	21.6	27.8
Media Studies	99.2	100.0	94.4	98.2	75.7	87.6	40.8	57.0	11.6	21.4	1.5	4.3
Music	100.0	n/a	94.9	99.6	80.9	94.4	55.1	79.8	25.0	49.6	6.3	15.3
Physical Education	97.2	99.8	88.0	96.4	69.1	85.5	41.9	59.6	15.6	30.1	4.2	9.3
Physics A	95.0	99.5	85.5	94.5	69.3	82.8	48.9	62.8	26.1	39.0	7.9	15.5
Physics B	96.6	99.7	86.7	95.6	72.3	83.4	53.7	67.2	33.0	44.1	9.7	17.4
Psychology	96.5	99.5	89.0	95.0	73.2	81.9	46.5	55.8	15.7	26.6	3.3	7.5
RS (Option A)	98.5	99.8	93.9	97.8	79.3	89.7	53.8	66.9	25.0	38.2	5.2	12.5
Sociology	98.0	99.7	93.4	97.1	80.3	86.6	51.4	59.8	18.5	26.8	4.5	7.5

Table A3: Actual and adjusted grade boundaries for 2019 (GCSEs)

Subject	Grade 1		Grade 2		Grade 3		Grade 4		Grade 5		Grade 6		Grade 7		Grade 8		Grade 9	
	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020
Ancient History	27	6	44	14	62	32	80	58	95	81	110	99	125	115	144	134	163	153
Art & Design	28	3	55	33	82	59	109	91	126	115	143	135	160	153	173	168	186	182
Biology A (F, sep)	18	11	39	22	60	38	81	61	96	86								
Biology A (F, comb)	18	11	39	24	60	40	81	64	96	86								
Biology A (H, sep)							57	30	73	58	90	78	107	98	120	115	134	130
Biology A (H, comb)							57	40	73	62	90	82	107	99	120	116	134	130
Biology B (F, sep)	29	12	50	41	71	61	93	80	108	102								
Biology B (F, comb)	29	18	50	41	71	60	93	79	108	99								
Biology B (H, sep)							61	43	74	60	87	79	100	94	111	107	123	119
Biology B (H, comb)							61	48	74	65	87	81	100	94	111	108	123	119
Business	22	10	40	28	58	45	77	65	86	79	95	89	104	98	111	106	118	114
Chemistry A (F, sep)	20	17	39	27	58	39	78	63	94	89								
Chemistry A (F, comb)	20	18	39	27	58	38	78	61	94	82								
Chemistry A (H, sep)							56	35	72	55	88	75	105	96	120	113	135	130
Chemistry A (H, comb)							56	42	72	60	88	78	105	97	120	114	135	131
Chemistry B (F, sep)	37	23	54	37	72	60	90	80	104	100								
Chemistry B (F, comb)	37	23	54	37	72	59	90	76	104	94								
Chemistry B (H, sep)							52	41	67	54	83	74	99	92	113	110	128	126
Chemistry B (H, comb)							52	41	67	57	83	76	99	92	113	109	128	125
Citizenship Studies	19	15	36	25	53	40	70	60	85	79	101	95	117	110	129	124	141	136
Class. Greek (option B)	51		67		83		99	45	109	79	119	91	129	115	151	143	173	166
Classical Civ.	24	2	43	18	62	35	82	52	95	72	108	92	121	109	132	123	143	136
Computer Science	22	11	38	23	54	36	71	52	85	70	99	85	113	101	125	115	137	129
D & T	16	0	38	17	60	42	83	67	98	85	113	100	128	116	141	132	155	147
Drama	28	0	56	36	84	68	113	98	127	118	142	134	157	150	167	161	177	172
Economics	30	10	43	20	56	38	69	53	80	66	91	81	103	94	113	106	123	117
English Language	16	5	34	19	52	42	70	62	82	76	94	89	107	101	119	114	131	127
English Literature	16	8	29	17	42	33	55	49	72	67	89	83	106	100	121	118	136	134
Food Prep. & Nutrition	36	0	70	42	104	85	139	118	161	145	183	168	205	190	223	211	241	232
Geography A	16	8	37	25	58	45	80	68	94	87	109	103	124	118	139	134	154	149
Geography B	14	3	37	23	61	47	85	72	98	91	112	106	126	121	138	133	151	147
History A (option BB)	11	1	35	16	59	40	83	61	100	85	117	106	135	127	152	145	169	164

Subject																		
History B (option BF)	18	5	44	29	70	57	96	85	110	105	125	122	140	138	156	154	173	171
Latin (option F)	32		50	45	68	50	87	70	105	89	123	108	141	130	157	151	173	169
Maths (F, sep)	24	16	64	50	104	88	144	130	189	181								
Maths (F, comb)	24	16	64	51	104	88	144	130	189	177								
Maths (H, sep)							68	38	102	81	136	120	171	158	213	201	256	245
Maths (H, comb)							68	57	102	91	136	130	171	160	213	201	256	247
Media Studies	16	2	41	21	66	42	92	74	108	97	124	115	140	132	152	146	164	158
Music	43	3	66	47	89	75	113	99	124	114	136	127	148	140	158	153	169	164
Physical Education	22	10	50	35	79	65	108	94	120	111	132	124	144	137	153	147	163	157
Physics A (F, sep)	20	11	42	23	65	45	88	75	102	98								
Physics A (F, comb)	20	13	42	29	65	46	88	73	102	92								
Physics A (H, sep)							69	41	86	67	103	90	120	112	133	128	147	143
Physics A (H, comb)							69	53	86	75	103	94	120	114	133	129	147	143
Physics B (F, sep)	18	6	38	24	59	49	80	70	95	92								
Physics B (F, comb)	18	6	38	23	59	44	80	66	95	83								
Physics B (H, sep)							50	35	66	52	82	72	98	92	114	111	130	127
Physics B (H, comb)							50	39	66	55	82	73	98	92	114	110	130	127
Psychology	33	14	52	33	71	52	90	72	102	90	115	104	128	118	138	131	149	143
Religious Studies	29	17	54	39	79	64	105	92	123	112	142	131	161	153	180	174	200	194

Table A4: Actual and adjusted cumulative percentages for 2019 (GCSEs)

Assessment code	Grade 1		Grade 2		Grade 3		Grade 4		Grade 5		Grade 6		Grade 7		Grade 8		Grade 9	
	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020
Ancient History	92.8	98.8	89.4	96.3	81.9	92.1	71.5	83.3	63.3	71.0	48.1	58.6	36.1	45.0	21.0	29.5	9.5	15.6
Art & Design	99.5	99.9	97.4	99.3	91.6	96.6	78.7	88.4	62.2	72.5	44.4	53.0	27.3	34.2	15.2	19.5	6.4	8.7
Biology A (F, sep)	96.9	99.1	82.3	94.5	63.1	83.9	38.8	62.5	19.5	31.6								
Biology A (F, comb)	96.9	99.1	82.3	94.2	63.1	83.6	38.8	61.9	19.5	33.9								
Biology A (H, sep)							98.2	99.9	91.9	97.9	76.6	88.0	53.3	65.7	34.8	41.2	16.2	20.1
Biology A (H, comb)							98.2	99.7	91.9	97.0	76.6	84.9	53.3	64.7	34.8	39.9	16.2	20.4
Biology B (F, sep)	98.9	100.0	92.6	95.9	75.5	86.0	40.5	62.0	14.5	23.6								
Biology B (F, comb)	98.9	99.8	92.6	96.0	75.5	86.4	40.5	65.3	14.5	31.2								
Biology B (H, sep)							96.4	99.8	86.8	96.7	68.6	81.2	45.1	55.2	26.3	32.6	11.1	14.9
Biology B (H, comb)							96.4	99.4	86.8	94.5	68.6	77.8	45.1	55.1	26.3	30.8	11.1	15.3
Business	99.0	99.8	94.9	98.1	85.9	92.9	67.3	81.0	52.7	64.2	35.5	46.8	19.9	29.9	9.7	16.1	3.7	6.7
Chemistry A (F, sep)	98.9	99.4	91.2	97.0	76.6	91.0	50.9	71.7	24.3	31.7								
Chemistry A (F, comb)	98.9	99.3	91.2	97.4	76.6	92.0	50.9	74.7	24.3	43.2								
Chemistry A (H, sep)							97.6	99.9	90.2	97.8	75.2	87.4	53.4	65.5	34.1	42.1	15.9	21.3
Chemistry A (H, comb)							97.6	99.5	90.2	96.2	75.2	85.0	53.4	63.7	34.1	41.5	15.9	20.6
Chemistry B (F, sep)	98.8	100.0	92.9	98.7	75.6	88.7	48.8	64.9	22.7	29.4								
Chemistry B (F, comb)	98.8	100.0	92.9	98.8	75.6	90.0	48.8	69.4	22.7	42.1								
Chemistry B (H, sep)							97.6	99.6	87.9	96.7	69.7	80.6	48.2	56.7	28.0	32.6	13.3	14.8
Chemistry B (H, comb)							97.6	99.6	87.9	95.1	69.7	78.8	48.2	57.1	28.0	33.6	13.3	15.4
Citizenship Studies	98.6	99.2	92.6	96.6	84.2	91.2	71.3	79.8	56.3	62.3	37.0	43.9	19.1	25.5	8.9	12.6	2.9	4.6
Class. Greek (option B)							98.0	100.0	97.1	99.5	94.9	98.6	91.5	95.9	80.9	86.0	55.3	65.5
Classical Civ.	99.4	99.9	97.9	99.7	94.4	98.8	84.2	96.7	72.8	89.8	57.1	76.1	38.0	55.3	22.9	34.0	10.3	16.9
Computer Science	96.9	99.3	89.1	96.3	78.2	90.5	63.4	79.8	49.4	64.6	35.2	48.9	22.0	33.1	12.0	19.4	4.3	8.5
D & T	99.0	100.0	95.6	98.9	87.3	94.5	72.8	83.7	59.7	71.0	46.4	57.8	32.9	43.2	20.5	29.2	9.1	14.5
Drama	99.6	100.0	97.8	99.3	91.8	96.1	74.8	85.3	60.6	69.9	41.9	51.5	22.8	31.7	11.4	17.6	4.1	7.1
Economics	99.4	100.0	97.4	99.7	92.5	98.3	82.5	93.6	71.1	84.7	55.1	69.7	35.6	49.4	20.4	30.6	9.3	13.9
English Language	99.2	99.8	96.9	98.9	91.1	95.2	77.7	84.6	63.5	70.0	48.7	55.3	32.3	38.8	18.2	22.6	7.6	10.0
English Literature	98.5	99.5	95.8	98.3	91.1	94.7	83.4	87.1	68.5	73.5	51.0	57.2	33.0	38.6	18.8	21.6	7.8	9.1
Food Prep. & Nutrition	99.6	100.0	97.0	99.4	88.1	94.4	69.4	81.4	53.3	64.6	37.0	47.8	22.7	31.4	12.2	18.4	4.8	7.9
Geography A	98.5	99.5	92.2	96.3	82.1	88.6	66.8	76.0	54.0	60.1	39.4	44.9	25.9	30.5	14.2	17.5	5.8	7.9
Geography B	98.3	99.7	92.9	96.7	83.2	89.3	67.7	76.8	56.2	62.2	41.6	47.1	26.8	31.8	15.2	19.0	6.0	8.4
History A (option BB)	98.0	99.4	93.2	97.1	85.5	91.5	75.8	84.6	65.3	74.8	54.0	60.7	38.7	45.3	22.3	27.1	8.1	11.1

Subject																		
History B (option BF)	97.9	99.4	92.6	96.1	82.9	88.7	66.0	74.7	53.3	57.7	39.3	42.3	26.1	27.6	14.8	15.6	5.8	6.4
Latin (option F)			100.0	100.0	99.6	100.0	98.9	99.7	97.2	98.7	93.3	96.7	85.9	90.8	71.4	77.5	45.9	53.1
Maths (F, sep)	97.8	99.1	86.3	91.1	67.0	75.5	42.2	51.0	15.3	19.5								
Maths (F, comb)	97.8	99.1	86.3	91.0	67.0	75.5	42.2	51.0	15.3	21.6								
Maths (H, sep)							98.2	99.8	87.2	95.3	66.4	76.8	45.0	52.3	25.2	30.1	9.8	13.3
Maths (H, comb)							98.2	99.0	87.2	91.6	66.4	69.7	45.0	50.5	25.2	30.0	9.8	12.4
Media Studies	98.8	99.8	94.7	98.5	86.1	94.4	68.0	81.6	54.0	64.4	35.3	45.1	18.7	26.6	9.4	13.8	3.6	5.7
Music	99.2	99.9	97.5	99.0	91.2	95.4	74.7	86.2	61.4	73.1	45.4	57.6	29.4	39.6	17.5	23.8	7.7	11.1
Physical Education	99.9	100.0	98.8	99.6	93.4	97.0	73.9	86.0	58.8	70.6	40.8	52.0	23.1	32.5	11.9	18.5	4.2	7.6
Physics A (F, sep)	99.1	99.7	96.5	98.8	85.4	95.8	53.8	73.7	28.2	35.2								
Physics A (F, comb)	99.1	99.6	96.5	98.8	85.4	95.8	53.8	76.4	28.2	46.2								
Physics A (H, sep)							97.5	99.8	89.8	97.8	75.8	87.1	54.5	64.9	35.4	42.0	15.6	20.6
Physics A (H, comb)							97.5	99.5	89.8	95.6	75.8	83.9	54.5	62.6	35.4	41.0	15.6	20.2
Physics B (F, sep)	99.5	100.0	95.2	98.7	81.6	90.1	50.0	68.1	22.4	27.0								
Physics B (F, comb)	99.5	100.0	95.2	99.1	81.6	92.1	50.0	73.2	22.4	43.6								
Physics B (H, sep)							97.8	99.9	86.7	97.3	67.1	78.5	47.3	54.1	27.2	30.9	11.8	14.1
Physics B (H, comb)							97.8	99.7	86.7	95.4	67.1	77.8	47.3	54.7	27.2	31.8	11.8	14.1
Psychology	97.6	99.7	91.4	97.5	79.1	91.5	61.6	78.7	47.6	62.0	32.0	45.4	18.6	28.4	9.6	15.2	3.7	6.2
Religious Studies	98.7	99.5	96.2	97.9	90.1	94.3	80.5	85.9	69.9	76.1	56.5	63.8	41.5	47.4	26.2	30.8	11.8	15.4

Appendix B: Common centres and students within those centres

Table B1: Numbers and percentages of common centres and students within those centres (A levels)

Subject	Common centres (n)	Common centres (% of all OCR 2019)	Students in common centres (2019)	Students in common centres (% of all OCR 2019)
Ancient History	48	60.8	574	82.1
Art & Design	384	88.3	5,608	95.0
Biology A	852	89.8	20,527	97.1
Biology B	9	69.2	216	87.4
Business	56	74.7	962	88.2
Chemistry A	949	90.0	21,986	97.8
Chemistry B	125	80.6	2,751	95.9
Class Civ (Option B)	57	71.3	415	73.5
Classical Greek	60	62.5	170	79.1
Computer Science	677	84.9	5,344	93.0
D & T	136	86.1	1,216	91.4
Drama / Theatre	71	81.6	604	87.7
Economics	127	72.6	2,678	86.4
English Lang & Lit	508	93.7	9,525	98.2
English Language	78	84.8	1,073	92.7
English Literature	113	89.0	1,654	94.0
Film Studies	43	71.7	542	84.8
Geography	294	89.4	4,752	95.6
Geology	33	75.0	449	93.0
Latin	246	73.7	954	84.6
Law	235	90.7	5,878	96.8
Maths A	161	83.0	6,587	92.1
Maths B	138	89.6	6,063	97.0
Media Studies	148	84.1	2,316	88.2
Music	72	69.9	256	78.5
Physical Education	542	85.1	4,675	92.6
Physics A	670	87.8	9,669	96.7
Physics B	56	68.3	1,418	87.0
Psychology	159	79.1	5,206	93.3
RS (Option A)	595	83.6	6,368	91.9
Sociology	161	83.4	3,525	93.9

Table B2: Numbers and percentages of common centres and students within those centres (GCSEs)

Subject	Common centres (n)	Common centres (% of all OCR 2019)	Students in common centres (2019)	Students in common centres (% of all OCR 2019)
Ancient History	39	57.4	695	77.5
Art & Des.	564	90.0	19,007	94.5
Biology A	159	80.7	8,716	92.3
Biology B	52	75.4	2,107	89.8
Business	270	82.8	13,049	92.5
Chemistry A	143	82.7	8,000	92.8
Chemistry B	40	74.1	2,057	91.5
Citizenship	58	78.4	1,993	71.6
Class. Civ.	211	84.4	3,343	92.6
Class. Greek (opt B)	74	53.6	586	70.7
Comp Science	1,865	88.9	50,916	93.1
D & T	169	84.1	5,791	89.5
Drama	326	87.2	7,993	89.5
Economics	119	74.4	3,399	86.2
English Lang	131	63.3	11,021	82.9
English Lit	90	69.8	9,309	80.1
Food Prep. & Nutr	154	89.0	3,373	91.3
Geography A	115	87.1	6,114	91.2
Geography B	255	91.1	18,319	94.4
History A (opt BB)	33	78.6	1,710	90.2
History B (opt BF)	62	83.8	4,127	89.8
Latin (opt F)	169	65.5	3,873	84.2
Maths	392	80.5	42,787	95.2
Media Studies	94	81.0	3,105	88.8
Music	439	84.4	6,297	89.8
Physical Education	622	85.4	19,485	89.2
Physics A	137	84.6	7,759	92.9
Physics B	40	78.4	1,898	90.9
Psychology	110	76.9	3,511	83.1
Religious Studies	149	70.0	6,621	83.2