



# Key stage 4 performance, 2019 (provisional)

Quality and methodology information

17 October 2019

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#### Introduction

This quality and methodology document provides an overview of the key stage 4 attainment data used in the production of the key stage 4 provisional statistical release and the secondary school performance tables. It provides information on the methodology used to calculate pupil attainment, as well as information on the data sources, their coverage and quality, and how the data is validated and processed.

This document is based on the Office for National Statistics' guidelines for measuring statistical quality.

# **Changes from the 2017-18 release**

#### **GCSE** reform

GCSE exams taken in 2019 are mostly reformed GCSEs graded on a 9-1 scale. The exceptions are Biblical Hebrew, Gujarati, Persian, Portuguese and Turkish. These qualifications will be first examined in 2020. Only the reformed GCSEs are included in secondary school performance measures as they are introduced for each subject. A full list of the reformed subjects is included in **Annex H** of the <u>secondary accountability measures quidance</u> and this <u>timetable</u> set out by Ofqual.

#### Performance tables point scores

As set out previously in the secondary accountability measures guidance, from 2017 performance tables point scores have been allocated to the new GCSEs on a 9 to 1 point scale corresponding to the new 9 to 1 grades. During the transition period (2017 to 2019) when a combination of reformed and unreformed GCSEs can count towards performance measures, point scores from unreformed GCSEs will be mapped onto the 9 to 1 scale with 8.5 being the maximum that can be achieved from an unreformed GCSE.

#### Pupils with extremely negative progress scores - change from 2018 and onwards

The department has listened to feedback and has refined the methodology for Progress 8 from 2018. This is in order to reduce the disproportionate impact that a small number of extremely negative progress scores can have on a school's average. We now limit how negative <sup>1</sup> a pupil's progress score can be when calculating the school average. These pupils still have large negative scores (to reflect that the pupils have made much less progress than other pupils in the same prior attainment group as them), but the disproportionate effect they have on a school's score has been reduced.

Further information on the calculation, the number of standard deviation(s) and minimum thresholds per prior attainment group is available in Annex E of the secondary accountability guidance.

School performance tables published from 2018 will display the progress figures calculated using this adjusted Progress 8 score. However, we will also publish the figures that do not place limits on pupil progress scores for transparency and to help inspectors and others identify how particular schools have been affected. This will be available in the school performance tables data download.

#### **Performance measures**

The headline measures that appear in the 2019 performance tables are:

progress across 8 qualifications (Progress 8)

<sup>&</sup>lt;sup>1</sup> We are not setting a maximum limit on how positive a pupil's progress score can be as there are much smaller numbers of extremely positive progress scores that have a disproportionate impact than extremely negative ones.

- percentage of pupils entering the English Baccalaureate (EBacc entry)
- percentage of students staying in education or going into employment after key stage 4 (pupil destinations)
- percentage of pupils achieving a grade 5 or above in English and maths (Attainment in English and maths)
- attainment across the same 8 qualifications (Attainment 8)
- English Baccalaureate Average Point Score (EBacc APS)

A range of additional performance measures and contextual information are published in performance tables. Further details about what will be published in the performance tables are set out in the Statements of Intent: here.

# Methodology

The measures covered in the key stage 4 statistical release include qualifications that count towards the secondary performance tables. Following reforms to the performance tables in 2014, only a pupil's first attempt at a qualification is counted.

From 2019, the majority of GCSEs included in performance measures are reformed, with a remaining subset due to be introduced in 2020. Once new reformed GCSEs (9 to 1) are introduced in a subject, unreformed GCSEs (A\*to G), International GCSEs or level 1/level 2 certificates in the same subject will no longer count in performance tables. This includes early entries in in GCSEs that are subsequently reformed.

A list of qualifications that count in the performance tables each year up to 2021 can be found <a href="https://example.com/here">here</a>. Further information on methodology used in the performance tables can be found on the performance tables <a href="https://example.com/guidance-page">guidance-page</a>. A timeline of changes in key stage 4 attainment measures can be found in <a href="https://example.com/Annex A">Annex A</a>.

For more information on coherence and comparability, see section 6 of this document.

#### Publication of provisional data at school level in the performance tables

The publication of provisional data in advance of the 31 October deadline for secondary school admission applications will continue to support parents who may wish to use the information when applying for a secondary school place for their child. As in previous years, any amendments made after August 2019 will be reflected in the full performance tables release in January 2020. The department first published provisional school level results in October 2015.

The decision to publish the provisional results at school level, for state-funded schools only, was based on analysis of historical data, which showed that provisional data is an accurate reflection of revised data for the vast majority of state-funded secondary schools. This is explained in more detail in the following section of this document: reliability. Provisional results are not published for independent schools because the level of change between provisional and revised data is higher, given that independent schools are unable to check their data until September, see timeline.

### **About the output**

National and local authority (LA) information on pupil's attainment at the end of key stage 4 in 2018/19 for secondary school pupils in England is published in the following statistical releases:

- Key stage 4 performance, 2019 (provisional)
- Key stage 4 performance, 2019 (revised)

GCSE and equivalent results for previous years can be found on the <u>Statistics: GCSEs (key stage 4)</u> section of gov.uk

School level information for the end of key stage 4 is published in the secondary school <u>performance</u> tables.

#### **Data sources**

The key stage 4 datasets are compiled mainly using information matched together from three data sources:

- i. prior attainment records (key stage 2 results)
- ii. school census records
- iii. qualification entries and results collected from awarding bodies

Attainment data for all pupils at the end of key stage 4 is collected from the awarding bodies by the department's contractor.

#### Relevance

This section describes the degree to which the statistics meet current and potential needs of the users.

The key strength of the data is that it is derived from an administrative data collection. This means that it can supply accurate data down to small geographical areas (school level). In addition, the data is merged with other administrative data held by the department (the school census) to provide detailed information on sub-groups of the school population. Pupil level data from different key stages can also be merged together so that we can produce precise measures of pupil progress between one key stage and another.

#### Key users

Department for Education	Used to monitor national standards of key stage 4 attainment in secondary schools in England. The national figures are used to determine whether standards are improving or declining.
	Data for sub-groups of the population are also analysed to inform departmental policies aimed at closing gaps in attainment.
	School level figures are used to identify schools where intervention may be needed to bring standards up to an acceptable level.
Ofsted	Used as part of the background information to inform school inspections. For example, it enables inspectors to identify areas of the curriculum or groups of pupils where a school appears to be doing less well. This would then form part of the focus during the inspection.

Ofqual	Used as part of the evidence it reviews on the setting and maintenance of standards in key stage 4 examinations.
Local authorities	National data and that for other local authorities is used to set the attainment of their area into context.
	School level information is used to hold maintained schools to account.
Schools	Used to evaluate their own performance against national standards and other local schools.
	Used to identify high performing schools with similar circumstances to their own that they can work with to improve their own standards.
School governors	Used to hold schools to account, to identify strengths and weaknesses and to support school improvement.
Teachers and head teachers	Used for analysis and self-evaluation, and to aid planning of school improvement strategies.
	Used to inform decisions about whether to apply for vacancies in particular schools and also as background information when preparing for interviews.
Parents	Used to compare their own children's performance to others in their school, local authority and nationally.
	Used to hold their children's schools to account and identify areas where they feel the school needs to improve.
	Used to inform choice of a secondary school for their child.
	Performance of schools in the local area is also a key consideration for parents and prospective parents when moving house.
Others	Used by researchers from this country and abroad. Used by others to identify schools with particular levels of attainment that they may wish to market their services to.

#### **Timeliness and punctuality**

Timeliness refers to the lapse of time between the period to which the data refers and the publication of the estimates.

The timeline of the key stage 4 data cycle is as follows:

#### May and June

Main GCSE examinations taken

Secondary schools performance tables June checking exercise takes place – this allows state-funded schools to check the pupils we have recorded as being on their roll

#### **August**

The Joint Council for Qualifications (JCQ) collects results data from the awarding bodies

JCQ publish GCSE results in the third week in August

The department's contractor receives results from the awarding bodies (data is collected throughout the year but the majority is collected in the summer)

#### September

The department receives provisional data from the contractor

Secondary schools performance tables checking exercise takes place

#### **October**

Provisional statistical release containing headline figures published alongside the provisional performance tables (published on 17 October in 2019 – around four weeks after the department receives the unamended data from the contractor)

Scrutiny of amendment requests following checking exercise

#### **November and December**

The department receives three sets of revised data, which includes further late results and later remarks received from awarding organisations

#### **January**

Revised statistical release published alongside the secondary school performance tables. Figures are also broken down by pupil characteristics. The performance tables include full breakdowns of school level data.

Errata period commences for schools to request additional amendments to data

#### **February**

Scrutiny of amendment requests made during the errata period

#### March

The department receives final data from the contractor and updates the performance tables and downloadable data file. The revised statistical release is not updated; however the final data will be used to update any time series in the following year's statistical release

Punctuality refers to the time lag between the actual and planned dates of publication.

The proposed month of publication is announced on <u>gov.uk</u> at least twelve months in advance and precise dates are announced in the same place at least four weeks prior to publication. In the unlikely event of a change to the pre-announced release schedule, the change and the reasons for it would be announced.

#### How the output is created

Data on pupils' attainment is collected from awarding bodies via the department's contractor. This information is linked with information on pupil characteristics taken from the <u>school census</u> and information on pupils' prior attainment. This data is used to produce the provisional statistical release and provisional performance tables.

The data is checked with schools during the performance tables checking exercise. The revised pupil attainment data is then linked again with information on pupil characteristics and prior attainment to produce the revised/final datasets and all derived variables recalculated. This data is published in the revised statistical release and the performance tables. Following publication of the performance tables, there is a short errata process where schools can inform us of any additional changes that should be made to the data. Following this process, the performance tables data is finalised and the performance tables website updated. The final data is used to update the time series in the following year's statistical release.

A large number of variables are derived for publication in the key stage 4 statistical release and in the secondary school performance tables. Annex B contains a summary of the key variables used in the publications.

#### Data added from other sources

#### Pupil characteristics

Information on pupil characteristics is taken mainly from the school census. Details will be provided when 2019 breakdowns are published in January 2020.

#### School characteristics

Information on school characteristics is taken from the <u>Get information about Schools (GIAS)</u> service. Annex C contains further information on the school characteristics used in the publication.

# **Accuracy**

Accuracy describes the closeness between an estimated result and the (unknown) true value.

#### **Data coverage**

The target population for the key stage 4 statistical collection is all pupils at schools or other education providers in England who are at the end of key stage 4, typically those pupils starting the academic year aged 15.

We produce a provisional statistical release in October based on the provisional data, covering headline national and local authority information, alongside the provisional school performance tables. Amendments to numbers on roll made during the June checking exercise (for state-funded schools only) are reflected in the provisional statistical release and provisional school performance tables. The provisional statistical release does not contain any characteristics breakdowns (other than gender) as these are more subject to change, particularly at local authority level.

During the September checking exercise, independent schools, FE colleges with 14 to 16 provision and local authorities with closed schools need to review and can apply for any amendments to their numbers on roll if necessary. During the September checking exercise, schools and colleges can also notify us of any other errors in their key stage 4 attainment data such as errors in matching prior attainment results and missing results. Any changes requested are validated to ensure that they comply with the rules before being accepted. Independent schools, FE colleges with 14 to 16 provision and local authorities are also able to apply for pupils to be removed from their figures, if they provide evidence and justifiable reasons in accordance with the <a href="checking instructions">checking instructions</a> guidance.

Schools cannot remove pupils in certain circumstances, for example: pupil has been excluded from school after the January school census; the pupil left to go to another school in England; or the pupil is a persistent non-attender.

Following the checking exercise, the revised data is produced. This includes changes requested by schools during the checking exercise, changes resulting from any successful marking reviews and any late results. The data is then published in the revised key stage 4 statistical release and in the secondary school performance tables.

Characteristic breakdowns such as ethnicity, special educational needs and first language are published alongside the revised national and local authority figures in this statistical release.

There are a small number of further changes to the data following publication of the performance tables. These changes are validated in the same way as those which are received during the checking exercise. The performance tables (national, local authority and school level figures) are updated with these changes but the statistical release is not updated because the extent of the changes does not usually affect the national or local authority figures. However, the final data will be used to update any time series in the following year's statistical release.

#### **Measurement error**

Measurement error is the difference between the actual value of a quantity and the value obtained by a measurement. Repeating the measurement will reduce the random error caused by the accuracy of the measuring instrument but not any systemic error caused by incorrect calibration of the measuring instrument.

This section describes the administration and marking of key stage 4 examinations, the re-marking process and the regulation of qualifications, all of which can affect the accuracy of key stage 4 attainment measures.

Clear guidance is provided to schools regarding the administration of the GCSE papers, including instructions for keeping the exam materials secure prior to the exams and storage of completed papers until they are collected for marking.

The exam papers are externally marked by the awarding bodies to ensure that marking is consistent between schools.

After marking, results are returned to schools. If schools have concerns over the marking of an exam paper, they may request for it to be re-marked. Outcomes of appeals are not reflected in the provisional data but are included in the revised data when received in adequate time by the department's contractors to process and check the data.

Further information on the general regulations for schools and how exams are conducted and marked can be found on the JCQ website: <u>Joint Council for Qualifications (JCQ) website</u>.

Ofqual sets the standards and rules that awarding bodies need to meet when they design, deliver and award regulated qualifications. They monitor awarding bodies and qualifications to make sure that standards are maintained. They are a risk-based regulator and concentrate their resources to where they are most needed. For example, they may discover that an awarding body's processes need updating or that there are risks connected to a qualification taken by thousands of students every year. Further guidance on the role of Ofqual can be found here.

Further checks are done during the checking exercise and these are outlined in the <u>data coverage</u> section above.

#### Validation and quality assurance of source data

Once schools have completed their key stage 4 exams they are required to send their exam materials and attendance registers to the awarding bodies for external marking and data capture.

Key stage 4 results are made available to schools on results day: in 2019 this was 22 August. This data is then passed from the awarding bodies to the department's contractor who carries out checks on the data (for example checking the validity of Qualification Numbers). Depending on the volume and nature of discrepancies, the contractor reports these back to awarding organisations for review. Once these checks are completed the data is uploaded onto the contractor's main database and further checks are carried out.

After the contractor has finished processing the data, it is then passed onto the department for use in the statistical releases and school performance tables.

#### Data processing

Key stage 4 exam data received from awarding bodies is combined with pupil characteristics from the school census and prior attainment by the department's contractor. Records are matched, using identifiers such as surname, forename, date of birth, UPN, gender and postcode. This successfully matches around 98 per cent of results.

At every stage in the data cycle, the department checks all calculations used in the production of the figures. The department carries out checks on the data to ensure that the files produced by the contractor comply with the specified format and contain the correct information. All indicators at school level, local authority level and national level are re-derived to ensure the contractor's systems are programmed correctly.

The entire process is subject to a 'dry run' during the summer. This involves producing a dummy dataset, from the previous year's dataset, which conforms to how the current year's data will be supplied (for example if new qualifications have been introduced, then dummy data would be added to last year's data to simulate these). This dummy dataset is used to test the contractor's systems and the departments' checking processes. This allows potential problems to be resolved prior to the receipt of the live data.

#### **Statistics production**

All data in the statistical release tables are produced by one person and quality assured by another. Any discrepancies in the data produced are discussed and resolved prior to publication. Examples of quality assurance are provided in the box below.

#### **Examples of further quality assurance**

Comparisons with previous year's figures to identify any large unexpected changes

Comparisons with provisional data to identify any large changes (revised and final data only)

Check totals are consistent across tables

Check patterns in the data (for example expected differences between subjects, high or low performing local authorities)

Check figures against those produced for the performance tables

# Reliability

The extent to which a figure changes over different versions of the same data.

The key stage 4 data can change between provisional and revised data as the revised data contains:

- outcomes of the appeals process where schools ask for reviews for one or more of their pupils in the belief that a clerical error has been made or the mark scheme has not been correctly applied
- late results and re-marks where results were received after the data was provided in August to the contractor by awarding organisations
- changes resulting from requests from schools to remove pupils who have recently arrived from
  overseas, have been admitted following a permanent exclusion for another school, if the pupil is not
  at the end of key stage 4, if the pupil has permanently left England, the pupil has left the school
  before exams or the pupil is deceased

The national figures usually change by no more than plus or minus one percentage point or one decimal point between provisional, revised and final data. Table 1 shows the change in some key figures at national level in 2017/18. Changes in the local authority and school level figures can be slightly larger. Figures do not typically change at a national level between revised and final data and changes in local authority and school level data are small.

Table 1: Change in national key stage 4 data, 2017/18

All schools		2017/18	
	Provisional	Revised	Final
Average Attainment 8 score per pupil	44.3	44.5	44.5
Percentage of pupils who achieved a 9 to 4 pass in English and maths	59.1	59.4	59.4
Percentage of pupils who achieved a 9 to 5 pass in English and maths	39.9	40.2	40.2

A longer time series showing change in the percentage of pupils entering the English Baccalaureate, is shown below.

Table 2: Change in national key stage 4 data

All schools		2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
Percentage of	Provisional	34.6	36.1	36.0	36.6	34.9	35.1	36.5
pupils entering the English	Revised	34.8	36.3	36.2	36.8	35.0	35.2	-
Baccalaureate:	Final	34.9	36.3	36.2	36.8	35.0	35.2	-

In October 2019, provisional results are published at school level, for state-funded schools only, so that parents can use the latest performance data to inform their choice of secondary school for 2019/20.

For the vast majority of state-funded schools, provisional data is a reasonably accurate reflection of revised data.

Table 3 shows the percentage of schools whose provisional results were very close to their revised published results in 2017/18. For state-funded schools, this was above 95 per cent across each of the headline measures.

Table 3: Difference between provisional and revised data in 2017/18

Measure	Difference between provisional and revised data in 2018	Percentage of state- funded schools <sup>2</sup>	Percentage of independent schools
Average Progress 8 score <sup>2</sup>	within 0.05 decimal points	97%	N/A
Average Attainment 8 score per pupil	within 1 point	98%	74%
Percentage of pupils entering the English Baccalaureate	within 1 percentage point	99%	89%

<sup>. &</sup>lt;sup>2</sup> Average Progress 8 score is provided for state-funded mainstream schools only.

Provisional results are not published for independent schools because the level of change is higher (as shown in table 3). This is mainly because independent schools are not included in the June checking exercise and are therefore more reliant on the September checking exercise for making changes to their pupil cohort.

# **Accessibility**

Accessibility is the ease with which users are able to access the data. It also relates to the format(s) in which the data are available and the availability of supporting information.

The statistical release text is published in pdf format so that it is accessible to all users irrespective of their choice of software. Care is also taken to ensure that the document meets accessibility guidelines. Key figures are highlighted in the statistical release text which draws out the key messages such as changes over time and differences between groups of pupils. Small tables or charts illustrating key figures are also included in the text.

In previous years, each statistical release was accompanied by formatted excel tables which allowed general users to find more detail than can be provided in the statistical release text.

From 2019, formatted excel tables are reduced and are available at national level only. The amount of formatted tables has been reduced in order to allow dissemination of key stage 4 attainment data in a tidy data <sup>2</sup> format. This will be published in excel format and contain the same levels of information as in previous years (e.g. national, local authority level). Similarly, any important limitations or inconsistencies in the data are noted in footnotes so that users do not have to refer to the text or this document. Data files are split into manageable sections (for example national level in one file, local authority in a separate file) so that users do not need to download larger files than necessary for their needs. A user guide accompanies the data files, showing examples of how to find the data you require.

Disseminating the data in this way makes the data more accessible for users who would like to manipulate the data for their own analysis and creates a more standardised way of displaying the data.

The performance tables website provides a number of ways of searching for schools of interest (for example by name of school, by town, within x miles of a postcode or all schools within a local authority) and presents the data in a series of web pages showing different aspects of the data. The selected schools are shown in alphabetical order by default but can be sorted by any measure if the user requires ranked data.

Key stage 4 information also forms part of the <u>national pupil database</u> (NPD) which is an education dataset holding a wide range of information about pupils and students and has provided invaluable evidence on educational performance to inform independent research, as well as studies commissioned by the department. Any user wishing to conduct more detailed research or analysis may request an anonymised pupil level extract of the NPD.

#### Disclosure Control

The Code of Practice for Official Statistics requires us to take reasonable steps to ensure that our published or disseminated statistics protect confidentiality. We assess our statistics with reference to the National Statistician's Guidance on Confidentiality of Official Statistics and guidance from the Information Commissioner's Office (ICO) to establish the risk of disclosure and its associated impact impact and

<sup>&</sup>lt;sup>2</sup> Tidy data is a specific way of organising data so that each measure is a column and each observation (or case) is a row.

suppress the data accordingly. For the 2019 provisional statistical release, it has been assessed and determined that no suppression of data is required.

In the school level data on the school performance tables website, any figures relating to a cohort of 5 pupils or fewer will be suppressed. This applies to sub-groups of pupils as well as the whole cohort; for example, if there were 5 boys and 3 girls in a school, we would not publish attainment for boys or girls separately but would publish attainment for all pupils (as this is based on 8 pupils).

# **Coherence and comparability**

Coherence is the degree to which the statistical processes, by which two or more outputs are generated, use the same concepts and harmonised methods. Comparability is the degree to which data can be compared over time, region or other domain.

We use the same methodology to produce the data within our statistical releases and the school performance tables. We also use a dataset produced at the same time for the performance tables and the provisional and revised statistical releases. As a result, the national and local authority figures included in the provisional and revised statistical releases and the performance tables will match when comparing measures with the same definition.

There have been a number of changes to key stage 4 data, which can make comparisons over time difficult. These changes are listed in Annex A. Where time series are shown in the tables, any discontinuities will be indicated in the tables by the use of a dotted line and footnotes will be included to explain the reason for the discontinuity. Where possible (for example, when methodology rather than test structures change), figures for previous years will be recalculated using the current methodology following major changes in methodology.

Care should be taken when comparing results between years. This is because changes to methodologies means that different rules have been applied meaning that direct comparisons are not always possible.

#### Change in performance by school type over time in academies

There is public interest in the performance of academies and performance data can be used to calculate time series to show how results have changed since opening.

A variety of factors mean that care should be taken when comparing results between years:

- changes to school accountability may lead schools to prioritise performance in different measures, for example focusing more attention on pupil progress as a result of the introduction of Progress 8.
- the group of schools included in each category changes from one year to the next for example local authority maintained schools becoming converter academies or new provision schools having results published for the first time. This is demonstrated in Table 7 which shows the number of schools included in attainment measures in each year. This means that comparing the headline figures for any of these groups captures not only the change in performance and the effect of reforms, but also the change in school composition. For example, if the additional schools to a group all had attainment that was below the average for the group, the effect would be to lower the average for the group even if each individual school saw no change in its own results.

Table 7: Attainment by school type

England, state-funded mainstream schools, 2019

	Number of schools with results in 2018	Number of schools with results in 2019
Local authority maintained mainstream schools	930	838
Sponsored academies	642	694
Converter academies	1,431	1,480
Total number of academies and LA maintained schools	3,003	3,012

Source: Key stage 4 provisional attainment data

Measuring improvement over time can show whether underperforming schools or groups of schools are catching up with higher performing schools. However, when interpreting such measures it should be noted that the extent to which a school improves is related to a range of factors, which makes it difficult to fully reflect the effect of any individual factor. Schools with the lowest previous outcomes tend to see the largest improvements but simply controlling for starting points does nothing to account for the very different circumstances, which may exist in two schools. For example, in two schools with the same outcomes, pupils might be far exceeding expectations given prior attainment in one while, in the other, pupils might be making less progress than expected. This will affect the relative ability to demonstrate improvement. For further discussion and analysis of these issues, see <a href="https://example.com/Attainment by pupils in academies 2012">Attainment by pupils in academies 2012</a> and the methodology document for Multi-academy trust performance is published alongside this release.

# Got a query? Like to give feedback?

If from the media	Press Office News Desk, Department for Education, Sanctuary Buildings, Great Smith Street, London SW1P 3BT. 020 7783 8300
If non-media	Key stage 4 performance tables team, School Performance Tables Unit, Data Directorate, Operations Group, Department for Education, Sanctuary Buildings, Great Smith Street, London SW1P 3BT
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# Annex A: Timeline of changes in key stage 4 attainment

2009/10	Publish per cent attaining the new English Baccalaureate
	Publish per cent attaining the "Basics" (A* to C English and maths)
	Count accredited International GCSEs (and their precursors) for first time <sup>1</sup>
2010/11	GCSE only measures introduced to performance tables.
2010/11	AS levels counted in English Baccalaureate
	<u> </u>
2011/12	First cohort to know of English Baccalaureate measure when making course choices
2012/13	New biology, chemistry, physics and additional science GCSEs
	Marks awarded for spelling, punctuation and grammar in English literature, history, geography and religious studies exams
2013/14	Wolf Review recommendations come into force in performance tables:
	<ul> <li>only Wolf-approved qualifications counted</li> </ul>
	<ul> <li>each equivalent of one GCSE only</li> </ul>
	<ul> <li>no more than two non-GCSE qualifications</li> </ul>
	new discounting rules
	Only the first attempt at a qualification counts in the performance tables and statistical releases in English Baccalaureate subjects
	GCSEs no longer unitised (modular) but linear
	New GCSE geography exam
	Unregulated International GCSEs no longer counted <sup>3</sup>
	Further information on the Wolf Review can be found in the Review of vocational education: the Wolf report
	Further guidance on discounting and early entry rules can be found in the <u>key</u> stage 4 discounting and early entry guidance.
2014/15	Early entry policy expanded to include all subjects
	Schools had the option to adopt a new accountability system a year early in 2015. It included two new headline measures: Attainment 8 and Progress 8. 327 schools chose to adopt the new accountability system early and for these schools Attainment 8 scores were published in the 2015 performance tables
	AS level computer science now contributes towards the EBacc science pillar
	Provisional performance tables published for the first time
	Key stage 2 attainment data was affected by the 2010 boycott and Single Level
	Tests pilot - see the 2015 <u>quality and methodology document</u> for further details.
2015/16	New headline measures from 2016 onwards include:
	Progress 8
	Attainment 8
	<ul> <li>percentage of pupils achieving the threshold in English and maths</li> </ul>
	<ul> <li>percentage of pupils achieving the English Baccalaureate</li> </ul>
	<ul> <li>percentage of pupils entering the English Baccalaureate</li> </ul>

The English requirement for the threshold measure on percentage of pupils achieving English and maths, and the English requirement for the English Baccalaureate has changed.

The point score scale for performance table measures has changed from the 16 to 58 scale used in 2015 and earlier to a 1 to 8 scale.

Expected standards for schools have changed (see annex D for further details).

#### 2016/17

In 2017, pupils sat reformed GCSEs in English language, English literature and maths for the first time, graded on a 9 to 1 scale. To ensure all pupils benefit from the reformed qualifications, only the new GCSEs are included in secondary school performance measures as they are introduced for each subject (for example, only reformed GCSEs in English and maths are included in 2017 measures).

The threshold for the English and maths and EBacc attainment headline measures has risen in 2017 to include a grade 5 or above in English and maths, following the introduction of 9 to 1 reformed GCSEs in these subjects. Additional measures are published alongside this where the threshold is set to achievement of grade 4 or above in English and maths in order to allow for comparisons to 2016.

The point score scale used to calculate Attainment 8 has changed slightly in 2017 in order to minimise change following the introduction of 9 to 1 reformed GCSEs. This means users should be cautious when comparing this measure between 2017 and previous years as Attainment 8 scores are likely to look different in 2017, as a result of changes to methodology.

From 2017 onwards, reading and maths test results only are used in calculating key stage 2 prior attainment fine levels for use in progress 8. Combined English score was used in previous years. This is because since 2012 primary schools have used a form of teacher assessment in writing at key stage 2 that does not map easily to test scores.

#### 2017/18

Results for an additional 20 reformed GCSEs published using the 9 to 1 grading system. Further subjects will have new GCSEs introduced over the next two years according to the <u>timetable</u> set out by Ofqual.

In 2018 the headline measures for all state-funded secondary schools and those colleges that offer key stage 4 provision are:

- Progress 8 (adjusted);\*
- · Attainment 8;
- EBacc Average Point Score (APS);\*
- the percentage of pupils entering the EBacc;
- the percentage of pupils achieving a pass in English and maths;

First publication of combined science as the alternative science pathway to separate sciences. This replaces the previous core and additional science option.

\*The adjusted Progress 8 methodology was new for 2018

\*EBacc APS was introduced in 2018

#### 2018/19

GCSE exams taken in 2019 are mostly reformed GCSEs graded on a 9-1 scale. The exceptions are Biblical Hebrew, Gujarati, Persian, Portuguese and Turkish which will be first examined and count in performance tables in 2020.

From 2019, we no longer publish information on schools below the floor standard or schools that are defined as coasting. For more information, see the

#### Secondary accountability measures guidance

The headline measures remain the same as 2018.

The period for inclusion of the unregulated legacy International GCSEs in measures was set for two years, commencing from the point at which the replacement regulated certificates became available for teaching, with the expectation being that pupils should be moved to the regulated certificates after this period. In independent schools, pupils have continued to be entered for unregulated International GCSEs that do not count in performance measures and they have not been moved across to the regulated certificate versions.

<sup>&</sup>lt;sup>3</sup> In 2010, new regulated versions of International GCSEs were approved. This allowed them to be taken in state-funded schools and included in the performance measures for the first time. At the same time, any results achieved by pupils in the legacy unregulated International GCSEs in these subjects were also valid for inclusion in performance indicators.

#### **Annex B: Derived variables**

A large number of variables are derived for publication in the key stage 4 statistical releases and in the secondary school performance tables. The performance measures contained within the statistical release are based on the same rules used to produce the measures shown in the secondary school performance tables.

A full list of the derived variables that will be published in the secondary school performance tables can be found in the <u>School and college performance tables 2019</u>: statement of intent

The table below summarises key variables used in the publications:

Number of pupils at the end of key stage 4
Used to identify the pupils to be included in school, local authority and national level calculations
Progress 8 aims to capture the progress a pupil makes from the end of primary school to the end of secondary school. It is a type of value added measure, which means that pupils' results are compared to the actual achievements of other pupils with the same prior attainment.
School scores should be interpreted alongside their associated confidence intervals. If the lower bound of the school's confidence interval is greater than zero, it can be interpreted as meaning that the school has achieved greater than average progress compared to pupils nationally, and vice versa if the upper bound is negative.
Further guidance can be found in the <u>Secondary accountability</u> <u>measures guidance</u>
Attainment 8 scores form the basis of Progress 8. It measures the achievement of a pupil across 8 subjects including maths (double weighted) and English (double weighted), 3 further qualifications that count in the English Baccalaureate (EBacc) measure and 3 further qualifications that can be GCSE qualifications (including EBacc subjects) or any other non-GCSE qualifications on the DfE approved list.
To calculate a pupils' Progress 8 score, their Attainment 8 score is compared with the average Attainment 8 score of all pupils nationally who had a similar starting point (or 'prior attainment')
Number and percentage of pupils achieving grades at 9-5 in both English and maths GCSEs. (For the additional measure, this is the number/percentage of pupils achieving grades 9-4 in both English and maths GCSEs.)

# (EBacc)

English Baccalaureate Percentage of pupils entering and achieving a core of selected academic subjects which are English, maths, sciences, a humanities subject (history or geography) and a language.

> A list of qualifications included in the English Baccalaureate is available at EBacc List

EBacc average points score – this was introduced as a new headline measure in 2018 and replaces the previous threshold measure. It gives the average score achieved across the 5 pillars. For more details see the **Secondary accountability measures** guidance

#### Low/middle/high prior attainment

Pupils are grouped based on their performance in reading and maths at key stage 2 (KS2). Indicators are shown for:

Low attainers = pupils below the expected level (level 4) at KS2 Middle attainers = pupils at the expected level (level 4) at KS2 High attainers = pupils above the expected level (level 4) at KS2

#### Annex C: Further detail on school characteristics

This annex provides further details of school characteristics taken from <u>Get information about schools</u> (GIAS)

#### **School Admission Basis**

The school admission basis is taken from GIAS and is self-declared by the school. From 2019, school performance tables will identify selective state-funded mainstream schools using GIAS and treat other state-funded mainstream schools as non-selective. School admissions basis is given as at 12 September at the start of the academic year and is defined as follows:

Selective schools	Admit pupils wholly or mainly with reference to ability. These schools were formally designated as grammar schools
Non-selective schools in highly selective areas	All schools in local authorities where 25% or more of secondary places are in selective schools <sup>4</sup>
All other non- selective schools	Includes schools in local authorities with some selection, as well as those with no selection

# **School Type and groupings**

The school types are taken from GIAS and are given as at 12 September at the start of the academic year. They are defined as follows:

School types	
Academy sponsor led	Sponsored academies are all-ability, state-funded schools established and managed by sponsors from a wide range of backgrounds, including high performing schools and colleges, universities, individual philanthropists, businesses, the voluntary sector, and faith communities
Academy converter	Schools that have chosen through Governing Body Resolution and application to the Secretary of State to become an academy under the Academies Act 2010
Free school	Free schools are all-ability state-funded schools set up in response to what local people say they want and need in order to improve education for children in their community. They have the same legal requirements as academies and enjoy the same freedoms and flexibilities
University technical college (UTC)	UTCs are all-ability and mixed sex state-funded schools, independent of local authorities. They are not extensions of or conversions from existing provision, but new academies, typically with 500 to 800 pupils. UTCs specialise in subjects that need modern, technical, industry-standard equipment, such as engineering and construction, and teach these disciplines alongside business skills and a broad, general education. Pupils integrate academic study with practical learning, studying core GCSEs alongside technical qualifications
Studio school	Studio schools are all-ability and mixed sex state-funded schools, independent of local authorities. They are an innovative new model of educational provision, delivering mainstream qualifications through practical project-based learning. They are not extensions or conversions from existing provision, but are new academies, typically with around 300 pupils
City technology college (CTC)	Independent all-ability, non-fee-paying schools offering pupils the opportunity to study a curriculum geared, with the help of private sector sponsors, towards the world of work. There are currently only three CTCs as most converted to sponsor led academies a few years ago
Further education college with provision for 14 to 16 year olds	General further education colleges and sixth-form colleges with provision for 14 to 16 year olds who wish to study high-quality vocational qualifications alongside general qualifications including English and maths within the key stage 4 curriculum. 2015 was the first year in which colleges have pupils at the end of key stage 4
Pupil referral unit (PRU)	A PRU is established and maintained by a local authority which is specially organised to provide education for children who are excluded, sick or otherwise unable to attend mainstream school and is not a special or other type of school

Alternative Provision (AP)	Alternative provision takes place when a local authority takes direct responsibility for the education of a young person who is unable to attend a mainstream school. Common reasons for a young person receiving alternative provision include exclusion, medical needs or school refusal
Non-maintained special schools	A school which has been approved as a special school and is not maintained by a LA
Independent school	Any school which provides full time education for 5 or more pupils of compulsory school age, which is not state-funded or a non-state-funded special school
Independent special schools	Approved by the Secretary of State for Education. They are run on a not-for-profit basis by charitable trusts and normally cater for children with severe and/or low incidence special educational needs. This group includes non-maintained special schools
State-funded mainstream schools	Includes local authority maintained mainstream schools, academies, free schools, city technology colleges (excluding all special schools, pupil referral units, alternative provision and independent schools)
LA maintained school	Schools fully or partially under local authority control that are state-funded, mainly by the Dedicated Schools Grant. These include community schools, foundation schools, voluntary aided school and voluntary controlled schools and also local authority maintained special schools
State-funded special schools	Includes local authority maintained special schools, academy sponsor led special schools, academy special schools and special free schools
State-funded school	Includes local authority maintained schools, academies, free schools, city technology colleges and state-funded special schools (excluding hospital schools, pupil referral units, alternative provision and independent schools)
All independent	Includes independent schools, independent special schools and non-maintained special schools

# **Religious character**

Religious character is taken from GIAS and are given as at 12 September at the start of the academic year, and is the legal designation of each school.

# Annex E: Glossary

Attainment 8 score	The achievement of a pupils across 8 subjects including maths (double weighted) and English (double weighted), 3 further qualifications that count in the English Baccalaureate (EBacc) measure and 3 further qualifications that can be GCSE qualifications (including EBacc subjects) or any other non-GCSE qualifications on the DfE approved <u>list</u> .
Checking exercise	Each year, schools are asked to check the provisional KS4 data that we hold for their school during the performance tables checking exercises. The data is uploaded to a secure website and schools can inform us via this website of any pupils that are included in their school in error, or of any missing pupils. They can also notify us of any other errors in the data such as errors in matching prior attainment results and apply for pupils to be discounted from their figures, if they have recently arrived from overseas and their first language is not English. Any changes requested are validated to ensure that they comply with the rules before being accepted.
Designated religious character	An Order made by the Secretary of State for Education under section 69(3) of the School Standards and Framework Act 1998(a), as applied in relation to independent schools by section 124B(1)(b) of that Act.
English Baccalaureate (EBacc)	Percentage of pupils entering and achieving a core of selected academic subjects which are English, maths, sciences, a humanities subject (history or geography) and a language.
	A list of qualifications included in the English Baccalaureate is available at EBacc List
	EBacc average points score – this was introduced as a new headline measure from 2018 and replaces the previous threshold measure. It gives the average score achieved across the 5 pillars. For more details see the <a href="Secondary accountability measures guidance">Secondary accountability measures guidance</a>
Get information about schools	Get information about schools is a register of educational establishments in England and Wales, maintained by the department. It provides information on establishments providing compulsory, higher and further education.
	The information included is provided from the establishments themselves and also from LAs and teams within the department.
JCQ	<u>Joint Council for Qualifications</u> . A membership organisation comprising the seven largest providers of qualifications in the UK.
KS2	Key stage 2. This covers years 3 to 6 in primary schools. Pupils are normally 10 or 11 years old at the end of key stage 2.
KS4	Key stage 4. This covers years 10 and 11 in secondary schools. Pupils are normally aged 15 or 16 years old at the end of key stage 4.
LA	Local authority
National Pupil Database (NPD)	The NPD contains detailed information about pupils in schools and colleges in England. It includes test and exam results, prior attainment and progression at different key stages and also includes information about pupils' characteristics.

Ofqual	The Office of Qualifications and Examinations Regulation. Regulates
	qualifications, examinations and assessments in England.
Performance tables	Secondary school performance tables are published in October (provisional, state-funded schools only) and January (revised, all schools) each year.
	Primary school performance tables are published in December and post-16 performance tables are published in January each year. They give information on the achievements of pupils in primary, secondary and 16 to 18 provision in schools and colleges, and how they compare with other schools and colleges in the Local Authority (LA) area and in England as a whole.
Progress 8 score	The progress a pupil makes from the end of primary school to the end of secondary school. It is a type of value added measure, which means that pupils' results are compared to the actual achievements of other pupils with the same prior attainment. As Progress 8 is a relative measure, the average Progress 8 score for all pupils nationally is zero, and it is therefore not published in the key stage 4 SR.
Provisional data	Provisional KS4 data is published in October of each year. The provisional data is subject to change though the impact on national data is usually minimal.
Reviews	If schools believe that the mark scheme has not been correctly applied or a clerical error has been made, they may ask for a paper to be re-marked. This may result in a change to the mark or scaled score awarded.
Revised data	Revised key stage 4 data is published in January each year. This updates the national and local authority information published in the provisional SR and also includes school level information in the performance tables and information on pupil characteristics.
School census	A statutory census which takes place during the autumn, spring, and summer terms.
SR	Statistical Release. All of the department's SRs are published on gov.uk.
Threshold measures	'Threshold measures' refer to any figures where we show the percentage of pupils who have achieved a particular standard in a subject or combination of subjects, for example, the percentage achieving grades 9 to 5 in English and maths.





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